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MATRICES FOR TRANSFORMING LEGENDRE POLYNOMIAL COEFFICIENTS BETWEEN LABORATORY AND CENTER OF MASS SYSTEMS

by

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MATRICES FOR TRANSFORMING LEGENDRE POLYNOMIAL COEFFICIENTS BETWEEN LABORATORY AND CENTER OF MASS SYSTEMS

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INTRODUCTION

Tables are already in existence[1,2] for the transformation of yields in angular distribution data between the laboratory system and the center-of-mass system. However, it was found desirable to transform the Legendre polynomial coefficients of expansions for the yields between the two systems for which no tables were readily available. The GEORGE computer at Argonne National Laboratory was coded to transform yields as well as the coefficients between the two systems. The matrices used in the transformation of coefficients are given in the tables below.

CALCULATIONS

Let

$$\sigma_c(\mu_c, E_c) = \sum_{L=0}^{\infty} B_L(E_c)\, P_L(\mu_c) \tag{1}$$

and

$$\sigma_0(\mu_0, E_0) = \sum_{L=0}^{\infty} A_L(E_0)\, P_L(\mu_0) \tag{2}$$

be the differential cross sections per unit solid angle in the center-of-mass and laboratory systems, respectively, where E_c and E_0 are the energies in each system, and μ_c and μ_0 are cosines of the polar angle (measured from the forward direction of the incoming particle in each system), $\sigma_c(\mu_c, E_c)$ and $\sigma_0(\mu_0, E_0)$ are independent of the azimuthal angle, and

$$\int_{-1}^{1} P_L(\mu) P_K(\mu)\, d\mu = \frac{2}{2L+1}\, \delta_{L,K} \quad . \tag{3}$$

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[1] J. B. Marion and A. S. Ginzbarg, Tables for the Transformation of Angular Distribution Data from the Laboratory System to the Center-of-Mass System, NP-6241, Shell Development Co. (1954).

[2] J. B. Marion, T. J. Arnette and H. C. Owens, Tables for the Transformation Between the Laboratory and Center-of-Mass Coordinate Systems and for the Calculation of the Energies of Reaction Products, ORNL-2574 (1959).

Multiplying both sides of (1) by $P_L(\mu_c)$ and integrating gives

$$\int_{-1}^{1} \sigma_c(\mu_c, E_c)\, P_L(\mu_c)\, d\mu_c = \int_{-1}^{1} \sum_{L'=0}^{\infty} B_{L'}(E_c)\, P_{L'}(\mu_c)\, P_L(\mu_c)\, d\mu_c$$

$$= \frac{2}{2L+1}\, B_L(E_c) \quad . \tag{4}$$

From the conservation of flux,

$$\sigma_c(\mu_c, E_c)\, d\mu_c = \sigma_0(\mu_0, E_0)\, d\mu_0 \quad . \tag{5}$$

Substitution of (5) into (4) gives

$$\int_{-1}^{1} P_L(\mu_c) \sum_{L'=0}^{\infty} A_{L'}(E_0)\, P_{L'}(\mu_0)\, d\mu_0 = \frac{2}{2L+1}\, B_L(E_c) \quad .$$

Interchanging the summation and integration,

$$\sum_{L'=0}^{\infty} A_{L'}(E_0) \left[\int_{-1}^{1} P_L(\mu_c)\, P_{L'}(\mu_0)\, d\mu_0 \right] = \frac{2}{2L+1}\, B_L(E_c)$$

or

$$B_L(E_c) = \sum_{L'=0}^{\infty} U_{LL'}\, A_{L'}(E_0) \quad , \tag{6}$$

where

$$U_{LL'} = \frac{2L+1}{2} \int_{-1}^{1} P_L(\mu_c)\, P_{L'}(\mu_0)\, d\mu_0 \quad . \tag{7}$$

In matrix notation (6) becomes

$$B = UA \quad . \tag{8}$$

Also

$$A = U^{-1}B \quad , \tag{9}$$

or

$$A_L(E_0) = \sum_{L'=0}^{\infty} (U^{-1})_{LL'}\, B_{L'}(E_c) \quad . \tag{10}$$

The matrix elements $U_{LL'}$ were calculated from (7) on GEORGE for $0 \leq L, L' \leq 10$, using the classical relation

$$\frac{(1 - \mu_c^2)^{\frac{1}{2}}}{\gamma + \mu_c} = \frac{(1 - \mu_0^2)^{\frac{1}{2}}}{\mu_0} \tag{11}$$

to relate the angles between the two systems, where

$$\gamma = + \left[\frac{M_1 M_3 (M_3 + M_4)}{M_2 M_4 (M_1 + M_2)} \left(\frac{E_c}{E_c + Q} \right) \right]^{1/2} \simeq \left[\frac{M_1 M_3}{M_2 M_4} \frac{E_c}{E_c + Q} \right]^{1/2} \tag{12}$$

and

$Q = (M_1 + M_2) - (M_3 + M_4)$, the energy release of the reaction;

$E_c = \frac{M_2}{M_1 + M_2} E_0$, the initial kinetic energy of relative motion of the particles, $M_1 + M_2$, in the center-of-mass-system;

E_0 is the kinetic energy of the incident particle M_1 in the laboratory system;

M_1 is the mass of the particle incident in the laboratory system;

M_2 is the mass of the target nucleus;

M_3 and M_4 are the masses of the emerging particles.

The above approximation is often valid since usually Q is small compared to $M_1 + M_2$ and $M_3 + M_4$.

DISCUSSION OF RESULTS

Table I lists $U_{LL'}$ calculated at intervals of $\Delta\gamma = 0.01$ for $0.01 \leq \gamma \leq 0.99$. Shown for the same γ below each U-matrix is the U^{-1} matrix as calculated by inverting the U-matrix. The $U_{LL'}$ are in decimal form, rounded off to the nearest fourth decimal place, while the $(U^{-1})_{LL'}$ are in floating notation. In this notation the decimal point is all the way to the left of the left-most digit and preceded by the sign. This number is multiplied by a power of ten indicated by the two digits and their sign following the number.

The U- and U^{-1}-matrices should in principle be infinite, so that a vector of only a finite number of nonvanishing coefficients in one system would transform into one of infinite number of coefficients in the new system. However, for practical reasons the matrices calculated were only of order eleven, which should be adequate for much of the experimental work.

Since the $U_{LL'}$ were each calculated independently, they form a minor of the infinite matrix indicated in (6). However the $(U^{-1})_{LL'}$ do not exactly form a minor of the infinite matrix indicated in (10) because U^{-1} was obtained by inverting the finite 11 x 11 U-matrix.

For the smaller values of γ a finite series of coefficients transformed to the new system will retain only one or two additional terms that are significant. It is often advisable to transform coefficients of series containing not more than nine nonvanishing terms with these matrices so that at least two higher coefficients may be evaluated in the new system. This allows a better estimate of the practical termination of the series.

Table II shows the same results as Table I, but for values of γ equal to $1/A$, where A is the mass number of the lighter nuclei from A = 3 through A = 32 inclusive. This table is included for the convenient use with the large class of problems of elastic scattering ($\gamma = M_1/M_2$) from the light nuclei, where $\gamma = 1/A$ is a sufficient approximation to $\gamma = M_1/M_2$. Cases where $1/A$ duplicated a case in Table I were not repeated here.

If the differential cross section is represented as in (1) or (2) multiplied by any constant, these same matrices apply. For example, Langsdorf, Lane, and Monahan[3] use

$$\sigma_c(\mu_c) = \frac{\sigma_T}{4\pi} \sum_L W_L^c \, P_L(\mu_c)$$

and

$$\sigma_0(\mu_0) = \frac{\sigma_T}{4\pi} \sum_L W_L^0 P_L(\mu_0)$$

$$= \sum_L \frac{\sigma_T}{4\pi} W_L^0 \, P_L(\mu_0) \quad .$$

$$= \sum_L A_L \, P_L(\mu_0) \quad ,$$

where

$$A_L = \frac{\sigma_T}{4\pi} W_L \quad .$$

But from (6) this means

$$B_L = \sum_{L'} U_{LL'} A_{L'} = \sum_{L'} U_{LL'} \frac{\sigma_T}{4\pi} W_{L'} = \frac{\sigma_T}{4\pi} \sum_{L'} U_{LL'} W_{L'} = \frac{\sigma_T}{4\pi} W_L$$

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[3]Phys. Rev. 107, 1077 (1957)

or

$$W_L^c = \sum_{L'} U_{LL'} W_{L'} \quad .$$

Zweifel and Hurwitz[4] give approximate expressions for matrix elements of the transformations

$$W_L^c = \sum_{L'=0}^{\infty} \Delta_{LL'} \; W_{L'}^0$$

and

$$W_L^0 = \sum_{L'=0}^{\infty} (\Delta^{-1})_{LL'} \; W_{L'}^c \quad ,$$

where

$$\sigma^c(\mu_c) = \sum_{L=0}^{\infty} \frac{2L+1}{4\pi} \; W_L^c \; P_L(\mu_c)$$

and

$$\sigma^0(\mu_0) = \sum_{L=0}^{\infty} \frac{2L+1}{4\pi} \; W_L^0 \; P_L(\mu_0)$$

Monahan[5] gives the following approximations to these matrix elements, correct to terms of the order γ^2, where his ρ is equivalent to our γ:

$$\Delta_{j\ell} = \left[1 - \rho^2 \frac{\ell(\ell+1)(2\ell^2+2\ell-3)}{2(2\ell-1)(2\ell+3)}\right]\delta_{j,\ell}$$

$$+ \rho\left[\frac{\ell(\ell-1)}{2\ell-1}\,\delta_{j+1,\ell} - \frac{(\ell+1)(\ell+2)}{2\ell+3}\,\delta_{j-1,\ell}\right]$$

$$+ \rho^2\left[\frac{(\ell+1)(\ell+2)(\ell+3)^2}{2(2\ell+3)(2\ell+5)}\,\delta_{j-2,\ell} + \frac{\ell(\ell-1)(\ell-2)^2}{2(2\ell-1)(2\ell-3)}\,\delta_{j+2,\ell}\right]$$

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[4] P. F. Zweifel and H. Hurwitz, Jr. J. Appl. Phys. 25, 1241 (1954)

[5] Fast Neutron Physics, Vol. 1 Eds. J. Fowler and J. P. Marion, Interscience Publishers (in press).

and

$$(\Delta^{-1})_{j\ell} = \left[1 - \rho^2 \frac{\ell(\ell+1)(2\ell^2+2\ell-1)}{2(2\ell-1)(2\ell+3)}\right]\delta_{j,\ell}$$

$$+ \rho\left[\frac{(\ell+1)(\ell+2)}{(2\ell+3)}\delta_{j-1,\ell} - \frac{\ell(\ell-1)}{2\ell-1}\delta_{j+1,\ell}\right]$$

$$+ \rho^2\left[\frac{\ell^2(\ell-1)(\ell-2)}{2(2\ell-1)(2\ell-3)}\delta_{j+2,\ell} + \frac{(\ell+1)^2(\ell+2)(\ell+3)}{2(2\ell+3)(2\ell+5)}\delta_{j-2,\ell}\right]$$

The relation between the $\Delta_{LL'}$ and the $U_{LL'}$ is

$$U_{LL'} = \frac{2L+1}{2L'+1}\Delta_{LL'} \quad ;$$

similarly,

$$(U^{-1})_{LL'} = \frac{2L+1}{2L'+1}\Delta^{-1}_{LL'}$$

These relations were used to spot-check the machine calculations and gave good agreement, especially for small γ as is expected.

Table I

$\gamma = 0.0100$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.0200	1.0000	0.0040	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
	2	0.0003	-0.0200	0.9999	0.0086	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	0.0000	0.0004	-0.0240	0.9997	0.0134	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	0.0000	0.0005	-0.0285	0.9995	0.0182	0.0002	0.0000	0.0000	0.0000	0.0000
	5	0.0000	0.0000	-0.0000	0.0006	-0.0333	0.9993	0.0231	0.0003	0.0001	0.0000	0.0000
	6	0.0000	0.0000	0.0000	0.0000	0.0008	-0.0381	0.9990	0.0281	0.0004	0.0000	0.0000
	7	0.0000	0.0000	0.0000	0.0001	0.0000	0.0009	-0.0430	0.9986	0.0339	0.0006	0.0000
	8	0.0000	0.0000	0.0001	0.0001	0.0000	-0.0000	0.0012	-0.0460	0.9983	0.0379	0.0007
	9	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0033	0.0015	-0.0528	0.9978	0.0429
	10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0052	0.0001	0.0000	0.0017	-0.0577	0.9973

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	200000-01	999939 00	-400138-02	101112-04	-134891-04	-114117-04	-342552-05	-934375-05	-115423-03	224234-05	-193912-04
2	875592-04	199944-01	999820 00	-857306-02	598932-04	-120581-04	-670272-05	-338289-04	-226752-04	-451044-05	-408560-05
3	-180385-04	124273-03	239921-01	999672 00	-133532-01	144723-03	-680470-05	-268544-04	-107711-04	-536199-05	-223257-04
4	-520534-05	-116436-04	227525-03	285263-01	999485 00	-181830-01	220347-03	-217602-04	-635165-05	-393031-04	-133107-04
5	-301480-04	-431371-04	-354893-05	368768-03	333127-01	999206 00	-230933-01	369460-03	-652258-04	-156858-04	-629599-05
6	-627424-05	-919863-05	-141607-04	-150700-04	485190-03	381258-01	998933 00	-280645-01	536577-03	-209311-04	-405544-04
7	-161064-04	-205555-04	-273896-04	-550084-04	-541952-04	695101-03	430459-01	998587 00	-339384-01	693036-03	-378840-04
8	-373633-04	-493593-04	-753597-04	-847825-04	-122979-04	-337081-05	919788-03	459963-01	998159 00	-378845-01	898817-03
9	-898594-04	-878930-05	-113245-04	-170063-04	-785182-05	685039-04	-328859-02	105853-02	528514-01	997735 00	-429360-01
10	-164607-04	-131082-04	-181770-04	-226135-04	-207643-03	-520511-02	-140207-03	-370444-04	136672-02	578231-01	100024 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.0200$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.0400	0.9999	0.0080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000	0.0000
	2	0.0012	-0.0400	0.9995	0.0171	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	0.0000	0.0013	-0.0480	0.9989	0.0267	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	-0.0000	0.0017	-0.0571	0.9981	0.0363	0.0007	0.0000	0.0000	0.0000	0.0000
	5	0.0001	0.0000	-0.0000	0.0023	-0.0666	0.9971	0.0461	0.0011	0.0000	0.0000	0.0000
	6	0.0000	0.0000	0.0000	-0.0000	0.0030	-0.0762	0.9959	0.0559	0.0016	0.0001	0.0000
	7	0.0000	0.0000	0.0001	0.0001	-0.0001	0.0038	-0.0859	0.9945	0.0657	0.0022	0.0001
	8	0.0000	0.0001	0.0001	0.0000	0.0000	-0.0001	0.0047	-0.0917	0.9929	0.0756	0.0029
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0064	0.0057	-0.1053	0.9911	0.0853
	10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0104	0.0001	-0.0002	0.0067	-0.1152	0.9891

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	399998-01	999755 00	-800068-02	875579-04	-343347-05	-118976-04	-749943-05	-250767-04	-229578-03	161870-04	-352787-05
2	397106-03	399852-01	999348 00	-171381-01	287308-03	-282013-04	-488086-05	-659526-05	-308481-04	-831429-05	-266049-05
3	-356648-04	603889-03	479729-01	998752 00	-266429-01	597726-03	-232854-04	-264190-04	-219323-04	-874501-05	-446452-04
4	-583945-05	-198637-04	999365-03	571020-01	997966 00	-363246-01	973491-03	-622382-04	-422448-05	-629173-05	-161351-04
5	-603387-04	-441787-04	207132-05	151244-02	665747-01	996935 00	-461134-01	149893-02	-510913-04	-158202-04	-127680-04
6	-885037-05	-185025-04	-135329-04	-119000-04	207398-02	762418-01	995767 00	-558622-01	208434-02	-894051-04	-362745-04
7	-320979-04	-186706-04	-549865-04	-573935-04	320531-04	280865-02	859602-01	994616 00	-656917-01	275324-02	-147703-03
8	-450992-04	-985179-04	-763727-04	-142731-04	-116522-04	346986-04	375008-02	918161-01	992989 00	-755237-01	360886-02
9	-149716-04	-153001-04	-224286-04	-109573-04	184858-04	361335-03	-648700-02	440519-02	105428 00	990957 00	-858160-01
10	-132003-04	-267168-04	-212495-04	-571094-04	-730608-03	-104379-01	-358090-03	327751-04	551031-02	115887 00	100099 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.0300$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0600	0.9998	0.0120	0.0001	0.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0000
2	0.0027	-0.0600	0.9989	0.0257	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0001	0.0029	-0.0719	0.9975	0.0400	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0001	0.0039	-0.0855	0.9957	0.0545	0.0015	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	-0.0002	0.0051	-0.0997	0.9935	0.0690	0.0024	0.0001	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0002	0.0067	-0.1140	0.9907	0.0836	0.0036	0.0001	0.0000
7	0.0001	0.0000	0.0001	0.0001	-0.0004	0.0084	-0.1284	0.9876	0.0983	0.0049	0.0002
8	0.0000	0.0000	0.0001	0.0000	0.0000	-0.0005	0.0104	-0.1428	0.9841	0.1129	0.0065
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0092	0.0127	-0.1573	0.9800	0.1273
10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0156	0.0001	-0.0009	0.0151	-0.1716	0.9756

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	599994-01	999449 00	-119958-01	215967-03	-803827-05	-125374-04	-130720-04	-529077-04	-341102-03	374839-04	-687434-05
2	892292-03	599688-01	998563 00	-256872-01	668922-03	-211403-04	-610787-05	-116326-04	-425457-04	-112198-04	-259100-05
3	-567118-05	140323-02	719314-01	997220 00	-399134-01	135323-02	-596538-04	-285205-04	-325352-04	-257726-05	-376057-05
4	-732551-05	-212596-04	228390-02	855876-01	995437 00	-543838-01	222792-02	-883787-04	-578978-05	-871927-05	-128179-04
5	-850125-05	-459304-04	259012-04	341518-02	997360-01	993165 00	-689079-01	337134-02	-156143-03	-117814-04	-194696-04
6	-370816-05	-273845-04	-123136-04	275990-04	471919-02	114147 00	990509 00	-834868-01	469836-02	-257656-03	-242991-04
7	-481725-04	-284860-04	-821707-04	-589035-04	126509-03	632079-02	128533 00	987364 00	-980670-01	622811-02	-406475-03
8	-451375-04	-166061-04	-832149-04	-221881-04	-150027-04	191262-03	919335-02	142939 00	983745 00	-112624 00	813888-02
9	-219484-04	-518604-05	-338619-04	-472986-05	113957-03	866737-03	-938899-02	108691-01	157472 00	979624 00	-128900 00
10	-170296-04	-396879-04	-267731-04	-115982-03	-160612-02	-157243-01	-685188-03	537936-03	124213-01	174037 00	100224 01

$\gamma = 0.0400$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0800	0.9997	0.0160	0.0002	0.0000	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000
2	0.0048	-0.0799	0.9980	0.0343	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0003	0.0052	-0.0958	0.9955	0.0532	0.0015	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0002	0.0069	-0.1139	0.9923	0.0725	0.0027	0.0001	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0004	0.0091	-0.1326	0.9884	0.0918	0.0043	0.0001	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0005	0.0119	-0.1515	0.9836	0.1111	0.0063	0.0003	0.0000
7	0.0001	0.0000	0.0000	0.0001	-0.0009	0.0149	-0.1705	0.9780	0.1304	0.0087	0.0004
8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0012	0.0185	-0.1893	0.9717	0.1495	0.0115
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	-0.0015	0.0224	-0.2081	0.9646	0.1685
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0208	0.0002	-0.0021	0.0266	-0.2266	0.9568

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	800001-01	999039 00	-159850-01	395545-03	-160620-04	-130084-04	-197634-04	-903431-04	-448912-03	668022-04	-121382-04
2	158653-02	799432-01	997463 00	-342123-01	120022-02	-476381-04	-628211-05	-187764-04	-599394-04	-122175-04	-166512-05
3	-811492-05	252235-02	958563-01	995077 00	-531230-01	240712-02	-124666-03	-209092-04	-390789-05	-684048-05	-463824-05
4	-931254-05	-124036-04	408148-02	113995 00	991901 00	-723192-01	397544-02	-204364-03	285994-05	-121776-04	-114879-04
5	-116552-04	-483379-04	777140-04	607630-02	132746 00	987894 00	-915369-01	597969-02	-355537-03	-372478-06	-264455-04
6	-241009-05	-372800-04	-218907-04	122002-03	841567-02	151793 00	983158 00	-110767 00	833290-02	-574154-03	-801546-05
7	-639110-04	-258150-04	-628957-05	-632610-04	316335-03	112430-01	170823 00	977597 00	-129929 00	110559-01	-793698-03
8	-499296-04	-215192-04	-715430-04	-318339-04	-411434-04	187384-03	143985-01	189768 00	971249 00	-148837 00	145019-01
9	-293906-04	-439323-05	-434000-04	119453-04	420191-03	350562-02	351319-03	178966-01	208677 00	963733 00	-172200 00
10	-216802-04	-536653-04	-352080-04	-211152-03	-281454-02	-206317-01	184503-02	956092-03	221411-01	232439 00	100399 01

$\gamma = 0.0500$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.1000	0.9995	0.0200	0.0002	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0000
	2	0.0075	-0.0999	0.9968	0.0428	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0005	0.0080	-0.1196	0.9930	0.0665	0.0023	0.0001	0.0000	0.0000	0.0000	0.0000
	4	0.0000	-0.0006	0.0107	-0.1421	0.9880	0.0905	0.0042	0.0001	0.0000	0.0000	0.0000
	5	0.0000	0.0001	-0.0008	0.0142	-0.1652	0.9818	0.1144	0.0067	0.0003	0.0000	0.0000
	6	0.0000	0.0000	0.0001	-0.0012	0.0185	-0.1886	0.9744	0.1383	0.0098	0.0005	0.0001
	7	0.0000	0.0000	0.0000	0.0001	-0.0017	0.0233	-0.2118	0.9658	0.1620	0.0136	0.0007
	8	0.0000	0.0000	0.0001	0.0000	0.0002	-0.0023	0.0287	-0.2348	0.9560	0.1854	0.0178
	9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002	-0.0031	0.0347	-0.2575	0.9450	0.2085
	10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0260	0.0004	-0.0040	0.0413	-0.2798	0.9328

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	100000 00	998498 00	-199657-01	626084-03	-286453-04	-135004-04	-292117-04	-137842-03	-551747-03	103774-03	-199689-04
	2	247931-02	999032-01	996050 00	-427054-01	188161-02	-907084-04	-573433-05	-284823-04	-806774-04	-111185-04	-760651-06
	3	-113872-04	395764-02	119736 00	992324 00	-662515-01	375697-02	-228584-03	-144737-04	-627517-05	-774403-05	-573830-05
	4	-682415-05	631203-04	639039-02	142298 00	987364 00	-900902-01	621019-02	-394641-03	158435-04	-157516-04	-973620-05
	5	-134578-04	-426047-04	164632-03	948349-02	165555 00	981135 00	-113875 00	930882-02	-679878-03	240223-04	-349828-04
	6	-115752-04	-459534-04	-151550-04	371018-03	131511-01	189094 00	973748 00	-137579 00	129618-01	-108381-02	379991-04
	7	-321211-05	-282954-04	-659966-05	-459989-04	632261-03	175496-01	212511 00	965114 00	-161087 00	171830-01	-155134-02
	8	-374840-04	-274183-04	-709803-04	-421107-04	-860395-04	392020-03	224469-01	235705 00	955287 00	-184097 00	227242-01
	9	-346514-04	-297222-05	-526129-04	456002-04	860894-03	550446-02	860318-03	278844-01	258671 00	943196 00	-215785 00
	10	-276492-04	-684377-04	-473206-04	-354828-03	-437782-02	-256630-01	297137-02	188221-02	346767-01	291173 00	100626 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.0600$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.1200	0.9993	0.0240	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0108	-0.1199	0.9954	0.0514	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0009	0.0115	-0.1434	0.9900	0.0797	0.0033	0.0001	0.0000	0.0000	0.0000	0.0000
	4	0.0001	-0.0010	0.0154	-0.1701	0.9828	0.1083	0.0060	0.0002	0.0000	0.0000	0.0000
	5	0.0000	0.0001	-0.0014	0.0204	-0.1976	0.9739	0.1368	0.0096	0.0005	0.0000	0.0000
	6	0.0000	0.0000	0.0001	-0.0021	0.0265	-0.2251	0.9632	0.1651	0.0141	0.0008	0.0001
	7	0.0000	0.0000	0.0000	0.0002	-0.0029	0.0333	-0.2523	0.9509	0.1930	0.0194	0.0013
	8	0.0000	0.0000	0.0001	0.0000	0.0003	-0.0039	0.0411	-0.2791	0.9369	0.2204	0.0255
	9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0005	-0.0053	0.0496	-0.3053	0.9212	0.2472
	10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0311	0.0007	-0.0069	0.0588	-0.3308	0.9040

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	120000 00	997836 00	-239363-01	907305-03	-466497-04	-901224-05	-862515-06	-468192-05	-298928-05	-321811-05	-821101-05
	2	360031-02	119873 00	994323 00	-511585-01	271190-02	-153611-03	830082-06	-174887-04	-186722-04	102355-05	-488143-05
	3	-108901-04	571863-02	143560 00	988963 00	-792782-01	539893-02	-380293-03	-185560-05	-477740-05	-568566-05	-777615-05
	4	-803185-05	113386-03	921119-02	170469 00	981823 00	-107655 00	892301-02	-676371-03	398051-04	-199824-04	-754146-05
	5	-160413-04	-425304-04	298404-03	136595-01	198176 00	972897 00	-135852 00	133404-01	-115831-02	685647-04	-459808-04
	6	-142612-04	-551734-04	-136129-04	646472-03	189401-01	225962 00	962306 00	-163810 00	185521-01	-183149-02	121124-03
	7	-442385-05	-313592-04	-807531-05	-350359-04	111105-02	252340-01	253516 00	949943 00	-191369 00	245543-01	-268709-02
	8	-369923-04	-336862-04	-706121-04	-580686-04	-167556-03	709496-03	322830-01	280738 00	935939 00	-218036 00	328339-01
	9	-405623-04	-111197-05	-602309-04	105883-03	152482-02	792172-02	149669-02	400387-01	307188 00	917959 00	-259728 00
	10	-351482-04	-839136-04	-641291-04	-560084-03	-629004-02	-306150-01	434130-02	328111-02	500717-01	350327 00	100904 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.0700$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1400	0.9990	0.0280	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0147	-0.1398	0.9937	0.0599	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0014	0.0157	-0.1671	0.9863	0.0928	0.0045	0.0002	0.0000	0.0000	0.0000	0.0000
4	0.0001	-0.0016	0.0209	-0.1979	0.9766	0.1259	0.0082	0.0003	0.0000	0.0000	0.0000
5	0.0000	0.0002	-0.0022	0.0277	-0.2295	0.9645	0.1589	0.0131	0.0007	0.0000	0.0001
6	0.0000	0.0000	0.0002	-0.0033	0.0359	-0.2609	0.9500	0.1913	0.0191	0.0013	0.0001
7	0.0000	0.0000	-0.0000	0.0004	-0.0046	0.0451	-0.2918	0.9334	0.2231	0.0263	0.0020
8	0.0000	0.0000	0.0001	0.0000	0.0005	-0.0063	0.0555	-0.3219	0.9145	0.2541	0.0344
9	0.0000	0.0000	0.0001	0.0000	0.0000	0.0008	-0.0084	0.0669	-0.3511	0.8934	0.2842
10	0.0000	0.0001	0.0000	0.0000	0.0000	0.0363	0.0012	-0.0109	0.0792	-0.3791	0.8704

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	139999 00	997055 00	-278943-01	123893-02	-715769-04	-710211-05	-114599-05	-483893-05	-360684-05	-402464-05	-965241-05
2	490102-02	139798 00	992282 00	-595637-01	368947-02	-241277-03	712428-05	-206934-04	-177246-04	968978-06	-515151-05
3	-785161-05	783671-02	167352 00	984996 00	-921848-01	732384-02	-588474-03	174653-04	-699272-05	-596101-05	-935950-05
4	-905648-05	192066-03	125492-01	198484 00	975311 00	-124929 00	120952-01	-106576-02	790033-04	-258733-04	-471029-05
5	-184753-04	-417060-04	487265-03	185756-01	230445 00	963219 00	-157399 00	180535-01	-181723-02	141352-03	-610377-04
6	-174118-04	-643837-04	-104123-04	102895-02	257439-01	262317 00	948865 00	-189355 00	250484-01	-285429-02	257133-03
7	-593877-05	-349575-04	-971456-05	-172541-04	178414-02	342838-01	293718 00	932205 00	-220539 00	330761-01	-427807-02
8	-365395-04	-403629-04	-696103-04	-765161-04	-302843-03	115715-02	438266-01	324507 00	913374 00	-250383 00	448694-01
9	-458715-04	101742-05	-718381-04	166666-03	246042-02	107637-01	237537-02	542399-01	353928 00	887934 00	-304104 00
10	-442191-04	-994356-04	-655025-04	-713425-03	-855913-02	-354672-01	598514-02	524177-02	683736-01	409985 00	101233 01

$\gamma = 0.0800$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1600	0.9987	0.0320	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0192	-0.1597	0.9918	0.0684	0.0025	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0020	0.0204	-0.1906	0.9821	0.1059	0.0058	0.0002	0.0000	0.0000	0.0000	0.0000
4	0.0002	-0.0023	0.0273	-0.2254	0.9694	0.1434	0.0107	0.0005	0.0000	0.0000	0.0000
5	-0.0000	0.0003	-0.0034	0.0361	-0.2609	0.9537	0.1806	0.0170	0.0011	0.0001	0.0001
6	0.0000	0.0000	0.0004	-0.0049	0.0467	-0.2960	0.9350	0.2170	0.0248	0.0018	0.0001
7	0.0000	0.0000	-0.0000	0.0007	-0.0069	0.0586	-0.3301	0.9134	0.2524	0.0341	0.0030
8	0.0000	0.0000	0.0001	-0.0000	0.0009	-0.0093	0.0719	-0.3631	0.8890	0.2866	0.0446
9	0.0000	0.0000	0.0001	0.0000	-0.0001	0.0014	-0.0124	0.0865	-0.3946	0.8619	0.3194
10	0.0000	0.0001	0.0000	0.0000	0.0000	0.0414	0.0019	-0.0161	0.1021	-0.4244	0.8323

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	159999 00	996153 00	-318380-01	162058-02	-104360-03	-427112-05	-153611-05	-501734-05	-428097-05	-497081-05	-111282-04
2	640269-02	159700 00	989931 00	-679132-01	481250-02	-357408-03	170313-04	-242317-04	-166216-04	811392-06	-545216-05
3	-916027-05	102364-01	191035 00	980428 00	-104950 00	953379-02	-862961-03	467496-04	-104789-04	-628116-05	-110664-04
4	-117087-04	288215-03	163910-01	226317 00	967811 00	-141959 00	157271-01	-158033-02	139648-03	-332207-04	-151683-05
5	-208888-04	-413642-04	739698-03	242344-01	262361 00	952099 00	-178445 00	234199-01	-269114-02	240667-03	-776603-04
6	-210305-04	-736608-04	-484114-05	153762-02	335592-01	298073 00	933469 00	-214093 00	324622-01	-413383-02	441199-03
7	-780056-05	-390643-04	-112948-04	123836-04	269247-02	446814-01	332976 00	911913 00	-248580 00	427220-01	-642356-02
8	-362003-04	-476068-04	-699806-04	-117127-03	-538827-03	176439-02	570633-01	366892 00	887668 00	-280831 00	588710-01
9	-504454-04	393047-05	-752731-04	325797-03	379411-02	140109-01	354083-02	704360-01	398558 00	853026 00	-348990 00
10	-549550-04	-116631-03	-880136-04	-104952-02	-111184-01	-402100-01	791740-02	786844-02	896353-01	470236 00	101615 01

$\gamma = 0.0900$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1800	0.9984	0.0360	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0243	-0.1796	0.9896	0.0769	0.0031	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0029	0.0259	-0.2141	0.9774	0.1189	0.0073	0.0003	0.0000	0.0000	0.0000	0.0000
4	0.0003	-0.0033	0.0344	-0.2527	0.9614	0.1608	0.0135	0.0007	0.0000	0.0000	0.0000
5	-0.0000	0.0004	-0.0048	0.0456	-0.2918	0.9415	0.2020	0.0215	0.0015	0.0001	0.0000
6	0.0000	-0.0000	0.0006	-0.0070	0.0588	-0.3301	0.9180	0.2421	0.0313	0.0026	0.0002
7	0.0000	0.0000	-0.0001	0.0010	-0.0097	0.0736	-0.3671	0.8909	0.2807	0.0428	0.0043
8	0.0000	0.0000	0.0001	-0.0001	0.0015	-0.0132	0.0902	-0.4023	0.8605	0.3176	0.0559
9	0.0001	0.0000	0.0001	0.0000	-0.0002	0.0021	-0.0176	0.1081	-0.4355	0.8268	0.3525
10	0.0000	0.0001	0.0000	0.0000	0.0001	0.0464	0.0031	-0.0227	0.1273	-0.4663	0.7901

U^{-1}

0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	179999 00	995131 00	-357652-01	205182-02	-146072-03	-232651-06	-200676-05	-523369-05	-502020-05	-606266-05	-126444-04
2	810535-02	179574 00	987268 00	-761991-01	607878-02	-506649-03	289899-04	-276015-04	-154702-04	533463-06	-581217-05
3	-105583-04	129558-01	214629 00	975262 00	-117552 00	120314-01	-117794-02	800497-04	-141930-04	-630813-05	-121606-04
4	-152755-04	413261-03	207402-01	253941 00	959343 00	-158661 00	198068-01	-223754-02	226262-03	-504034-04	-727733-05
5	-256460-04	-544017-04	106574-02	306302-01	293878 00	939566 00	-198923 00	294126-01	-378781-02	430431-03	-463394-04
6	-139152-04	-211804-04	173298-05	219030-02	423707-01	333143 00	916163 00	-237931 00	406790-01	-581283-02	763170-03
7	-551625-05	-186140-04	-138068-04	561448-04	386600-02	564079-01	371164 00	889170 00	-275290 00	533337-01	-919040-02
8	-351824-04	-506340-04	-711034-04	-171870-03	-847862-03	254910-02	719594-01	407717 00	858995 00	-309085 00	748936-01
9	-540624-04	789186-05	-756417-04	535647-03	540643-02	176775-01	502807-02	885431-01	440743 00	813116 00	-394462 00
10	-673590-04	-134422-03	-118890-03	-149162-02	-140584-01	-448141-01	101523-01	112662-01	113919 00	531168 00	102050 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1000$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.2000	0.9980	0.0400	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0300	-0.1994	0.9872	0.0854	0.0038	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0040	0.0319	-0.2373	0.9721	0.1318	0.0091	0.0004	0.0000	0.0000	0.0000	0.0000
4	0.0005	-0.0045	0.0424	-0.2796	0.9524	0.1779	0.0166	0.0010	0.0000	0.0000	0.0000
5	-0.0000	0.0007	-0.0066	0.0561	-0.3221	0.9280	0.2229	0.0264	0.0020	0.0001	0.0000
6	0.0000	-0.0001	0.0010	-0.0095	0.0721	-0.3634	0.8992	0.2664	0.0384	0.0036	0.0003
7	0.0000	0.0000	-0.0001	0.0015	-0.0133	0.0902	-0.4026	0.8661	0.3079	0.0524	0.0058
8	0.0000	0.0000	0.0001	-0.0002	0.0022	-0.0181	0.1101	-0.4207	0.8291	0.3469	0.0683
9	0.0001	0.0000	0.0001	0.0000	-0.0003	0.0032	-0.0239	0.1317	-0.4735	0.7883	0.3833
10	0.0000	0.0000	0.0000	0.0000	0.0001	0.0514	0.0046	-0.0307	0.1545	-0.5044	0.7441

U^{-1}

0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	199999 00	993990 00	-396739-01	253217-02	-197780-03	528019-05	-268600-05	-535839-05	-587384-05	-729992-05	-142081-04
2	100093-01	199417 00	984296 00	-844134-01	748610-02	-691099-03	490907-04	-319476-04	-141428-04	136137-06	-617959-05
3	-120369-04	159953-01	238121 00	969502 00	-129975 00	147877-01	-160640-02	136647-03	-216108-04	-622191-05	-139713-04
4	-204194-04	568514-03	255950-01	281331 00	949917 00	-175005 00	242992-01	-305371-02	348956-03	-699733-04	-374787-05
5	-287585-04	-570152-04	147375-02	377564-01	324949 00	925653 00	-218731 00	360814-01	-517427-02	663266-03	-839285-04
6	-159785-04	-247450-04	142154-04	300427-02	521574-01	367387 00	896616 00	-261578 00	499430-01	-794071-02	120455-02
7	-687385-05	-196316-04	-157057-04	119086-03	536739-02	698091-01	410482 00	868988 00	-302234 00	651751-01	-127548-01
8	-325318-04	-459941-04	-736911-04	-252104-03	-133503-02	252623-02	820597-01	433264 00	832254 00	-335841 00	931937-01
9	-672271-04	-402349-04	-678997-04	831294-03	738832-02	211556-01	315138-02	100606 00	482866 00	767481 00	-440488 00
10	-569356-04	-307778-04	-164364-03	-204505-02	-173519-01	-494393-01	116129-01	132320-01	142103 00	592700 00	102542 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1100$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.2200	0.9976	0.0440	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0363	-0.2192	0.9845	0.0938	0.0046	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0053	0.0386	-0.2604	0.9663	0.1446	0.0109	0.0005	0.0000	0.0000	0.0000	0.0000
4	0.0007	-0.0060	0.0512	-0.3062	0.9425	0.1948	0.0201	0.0013	0.0001	0.0000	0.0000
5	-0.0001	0.0009	-0.0087	0.0676	-0.3518	0.9132	0.2434	0.0318	0.0027	0.0002	0.0000
6	0.0000	-0.0001	0.0014	-0.0126	0.0867	-0.3955	0.8786	0.2900	0.0462	0.0047	0.0004
7	0.0000	0.0000	-0.0002	0.0022	-0.0176	0.1082	-0.4365	0.8391	0.3338	0.0629	0.0077
8	0.0000	0.0000	0.0001	-0.0003	0.0032	-0.0239	0.1317	-0.4539	0.7950	0.3744	0.0817
9	0.0001	0.0000	0.0001	0.0001	-0.0005	0.0047	-0.0315	0.1569	-0.5085	0.7467	0.4116
10	0.0000	0.0000	0.0000	0.0000	0.0001	0.0562	0.0066	-0.0404	0.1835	-0.5385	0.6946

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	219998 00	992727 00	-435622-01	305996-02	-260356-03	125809-04	-366423-05	-556679-05	-679670-05	-870308-05	-158239-04
2	121148-01	219227 00	981020 00	-925230-01	902801-02	-914592-03	762960-04	-375499-04	-125213-04	-431426-06	-656416-05
3	-136152-04	193548-01	261504 00	963158 00	-142200 00	178046-01	-212555-02	212507-03	-323647-04	-578868-05	-159866-04
4	-273237-04	758452-03	309535-01	308463 00	939548 00	-190950 00	291964-01	-403586-02	512034-03	-972528-04	147399-05
5	-319454-04	-598447-04	197322-02	456058-01	355525 00	910396 00	-237860 00	432547-01	-682379-02	968694-03	-140151-03
6	-183162-04	-288696-04	318280-04	399652-02	629028-01	400808 00	875498 00	-283525 00	597417-01	-104439-01	179906-02
7	-819716-05	-196880-04	-173375-04	208419-03	721015-02	842845-01	446798 00	842322 00	-326324 00	775182-01	-171081-01
8	-314013-04	-494532-04	-786675-04	-371050-03	-194334-02	346803-02	992688-01	470273 00	798839 00	-358980 00	113521 00
9	-721730-04	-462506-04	-537542-04	123213-02	982861-02	253552-01	436216-02	121154 00	519816 00	716917 00	-487313 00
10	-678443-04	-383454-04	-217938-03	-272446-02	-209873-01	-538283-01	140251-01	178453-01	173005 00	655172 00	103089 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1200$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.2400	0.9971	0.0480	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0432	-0.2390	0.9815	0.1022	0.0055	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0069	0.0459	-0.2834	0.9599	0.1573	0.0130	0.0006	0.0000	0.0000	0.0000	0.0000
4	0.0010	-0.0078	0.0608	-0.3324	0.9316	0.2114	0.0238	0.0017	0.0001	0.0000	0.0000
5	-0.0001	0.0013	-0.0113	0.0800	-0.3807	0.8970	0.2634	0.0377	0.0035	0.0002	0.0000
6	0.0000	-0.0002	0.0020	-0.0163	0.1025	-0.4265	0.8562	0.3127	0.0545	0.0061	0.0005
7	0.0000	0.0001	-0.0003	0.0031	-0.0227	0.1275	-0.4688	0.8099	0.3583	0.0741	0.0099
8	0.0000	0.0000	0.0001	-0.0005	0.0045	-0.0308	0.1547	-0.5068	0.7583	0.4000	0.0960
9	0.0001	0.0000	0.0001	0.0001	-0.0008	0.0066	-0.0404	0.1837	-0.5401	0.7021	0.4372
10	0.0000	0.0000	0.0000	0.0000	0.0002	0.0609	0.0092	-0.0517	0.2139	-0.5683	0.6420

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	239998 00	991349 00	-474117-01	363498-02	-334930-03	220312-04	-507673-05	-591099-05	-776918-05	-102920-04	-174964-04
2	144224-01	238998 00	977435 00	-100569 00	107084-01	-118141-02	112162-03	-447314-04	-105387-04	-119698-05	-695223-05
3	-152983-04	230342-01	284762 00	956225 00	-154205 00	210730-01	-274311-02	310816-03	-472602-04	-487541-05	-182530-04
4	-363562-04	986591-03	368133-01	335309 00	928248 00	-206457 00	344837-01	-518702-02	718963-03	-133476-03	884825-05
5	-352090-04	-628772-04	257330-02	541703-01	385558 00	893798 00	-256315 00	507925-01	-870593-02	134628-02	-218147-03
6	-209339-04	-335537-04	556771-04	518422-02	745942-01	433430 00	853332 00	-303034 00	696609-01	-132373-01	255607-02
7	-963257-05	-197515-04	-183421-04	329039-03	938230-02	993165-01	478105 00	807205 00	-346060 00	897631-01	-222274-01
8	-304560-04	-530035-04	-875307-04	-534089-03	-257764-02	634696-02	126201 00	519100 00	757183 00	-377409 00	135712 00
9	-765201-04	-525976-04	-291044-04	176627-02	128688-01	310917-01	117667-01	153264 00	549033 00	661950 00	-535223 00
10	-803852-04	-474615-04	-286035-03	-354199-02	-249270-01	-576171-01	188631-01	272009-01	205676 00	718978 00	103684 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

00000

$\gamma = 0.1300$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.2600	0.9966	0.0520	0.0015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0507	-0.2587	0.9783	0.1106	0.0065	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0088	0.0538	-0.3061	0.9530	0.1699	0.0152	0.0008	0.0001	0.0000	0.0000	0.0000
	4	0.0014	-0.0100	0.0712	-0.3581	0.9199	0.2277	0.0279	0.0021	0.0001	0.0000	0.0000
	5	-0.0002	0.0018	-0.0143	0.0935	-0.4088	0.8796	0.2829	0.0440	0.0044	0.0003	0.0000
	6	0.0000	-0.0003	0.0027	-0.0206	0.1194	-0.4562	0.8322	0.3344	0.0635	0.0078	0.0007
	7	0.0000	0.0001	-0.0004	0.0042	-0.0287	0.1481	-0.4990	0.7786	0.3815	0.0860	0.0125
	8	0.0001	0.0000	0.0002	-0.0007	0.0062	-0.0388	0.1791	-0.5366	0.7193	0.4235	0.1111
	9	0.0001	0.0000	-0.0000	0.0002	-0.0012	0.0090	-0.0507	0.2117	-0.5682	0.6551	0.4599
	10	0.0000	0.0000	0.0000	-0.0000	0.0003	-0.0019	0.0126	-0.0647	0.2454	-0.5935	0.5867

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	259997 00	989847 00	-512512-01	425859-02	-423209-03	329315-04	-652848-05	-619912-05	-889531-05	-120566-04	-192370-04
2	169323-01	258727 00	973540 00	-108521 00	125207-01	-149489-02	158622-03	-535401-04	-828372-05	-214838-05	-734540-05
3	-171072-04	270335-01	307885 00	948712 00	-165974 00	245825-01	-346495-02	436877-03	-680952-04	-309086-05	-208926-04
4	-479285-04	125649-02	431718-01	361844 00	916036 00	-221492 00	401282-01	-653930-02	986254-03	-183412-03	198347-04
5	-385493-04	-660547-04	328324-02	634397-01	414994 00	875909 00	-273889 00	589203-01	-109436-01	183523-02	-331952-03
6	-238541-04	-392675-04	861989-04	659864-02	872876-01	465162 00	828916 00	-322284 00	805388-01	-165511-01	356731-02
7	-110727-04	-173354-04	-148288-04	369971-03	112371-01	114423 00	511283 00	775583 00	-366135 00	102907 00	-284901-01
8	-305519-04	-669464-04	-104207-03	-753504-04	937168-03	175933-01	144337 00	552641 00	718674 00	-393508 00	160485 00
9	-773707-04	-404590-04	-606897-04	-463115-04	578612-04	185637-02	256464-01	175553 00	578178 00	600445 00	-583863 00
10	-960305-04	-424589-04	-640140-04	-653364-04	-742409-04	459362-04	327059-02	389628-01	242098 00	783701 00	104340 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1400$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.2800	0.9961	0.0560	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0588	-0.2784	0.9748	0.1190	0.0075	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0110	0.0623	-0.3287	0.9455	0.1824	0.0177	0.0010	0.0001	0.0000	0.0000	0.0000
	4	0.0019	-0.0124	0.0823	-0.3834	0.9074	0.2438	0.0322	0.0027	0.0001	0.0000	0.0000
	5	-0.0003	0.0024	-0.0179	0.1078	-0.4361	0.8609	0.3017	0.0508	0.0055	0.0004	0.0000
	6	0.0001	-0.0004	0.0036	-0.0257	0.1374	-0.4845	0.8066	0.3551	0.0731	0.0096	0.0009
	7	0.0000	0.0001	-0.0007	0.0056	-0.0356	0.1698	-0.5273	0.7454	0.4030	0.0986	0.0155
	8	0.0001	0.0000	0.0002	-0.0010	0.0083	-0.0479	0.2045	-0.5636	0.6781	0.4447	0.1268
	9	0.0001	0.0000	-0.0000	0.0002	-0.0018	0.0119	-0.0625	0.2408	-0.5926	0.6057	0.4796
	10	0.0000	0.0000	0.0000	-0.0000	0.0004	-0.0027	0.0167	-0.0794	0.2778	-0.6140	0.5292

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	279996 00	988225 00	-550640-01	492881-02	-525115-03	475643-04	-958822-05	-668075-05	-444311-05	120892-05	-194291-05
2	196450-01	278412 00	969339 00	-116369 00	144623-01	-185378-02	232065-03	-438428-04	-147815-04	422570-05	-335199-05
3	-190175-04	313531-01	330864 00	940625 00	-177486 00	283260-01	-429346-02	601341-03	-995100-04	141055-05	-237469-04
4	-627610-04	156786-02	500131-01	388046 00	902926 00	-236019 00	461138-01	-809029-02	131724-02	-248785-03	354336-04
5	-409804-04	-553517-04	416100-02	734003-01	443801 00	856781 00	-290606 00	674601-01	-134965-01	243517-02	-488299-03
6	-264640-04	-372792-04	154805-03	823218-02	100820 00	495697 00	802981 00	-340136 00	918822-01	-202824-01	485632-02
7	-127120-04	-148732-04	-828043-05	516010-03	140124-01	131852 00	542503 00	742155 00	-384338 00	116238 00	-358998-01
8	-300648-04	-717272-04	-107723-03	-757252-04	126661-02	218853-01	165865 00	583487 00	678480 00	-405643 00	187660 00
9	-791508-04	-450192-04	-659876-04	-496218-04	854382-04	249837-02	318130-01	200630 00	602691 00	533117 00	-633525 00
10	-112251-03	-503279-04	-739768-04	-757917-04	-810130-04	991167-04	445587-02	489522-01	282508 00	849513 00	105056 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1500$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.3000	0.9955	0.0600	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0675	-0.2981	0.9711	0.1273	0.0086	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0135	0.0715	-0.3510	0.9375	0.1947	0.0202	0.0013	0.0001	0.0000	0.0000	0.0000
4	0.0025	-0.0153	0.0942	-0.4082	0.8939	0.2595	0.0368	0.0033	0.0002	0.0000	0.0000
5	-0.0004	0.0031	-0.0220	0.1231	-0.4625	0.8410	0.3200	0.0579	0.0067	0.0005	0.0000
6	0.0001	-0.0006	0.0047	-0.0314	0.1563	-0.5114	0.7794	0.3748	0.0831	0.0118	0.0012
7	0.0000	0.0001	-0.0009	0.0073	-0.0435	0.1925	-0.5535	0.7104	0.4230	0.1118	0.0189
8	0.0001	0.0000	0.0003	-0.0015	0.0108	-0.0583	0.2309	-0.5876	0.6349	0.4637	0.1432
9	0.0001	0.0000	-0.0000	0.0003	-0.0025	0.0156	-0.0758	0.2706	-0.6131	0.5543	0.4962
10	0.0000	0.0000	0.0000	-0.0000	0.0006	-0.0038	0.0217	-0.0959	0.3105	-0.6296	0.4699

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	300000 00	986499 00	-588489-01	564490-02	-641982-03	657546-04	-127072-04	-664899-05	-455584-05	136127-05	-234308-05
2	225624-01	298052 00	964834 00	-124108 00	165286-01	-226797-02	306189-03	-574171-04	-122176-04	440613-05	-319246-05
3	-209181-04	359929-01	353685 00	931972 00	-188724 00	322895-01	-524312-02	795603-03	-137098-03	639325-05	-275284-04
4	-808686-04	193124-02	573592-01	413886 00	888938 00	-250006 00	524107-01	-985514-02	172397-02	-333998-03	575604-04
5	-442795-04	-570974-04	512010-02	840520-01	471928 00	836449 00	-306388 00	763928-01	-163899-01	316248-02	-700312-03
6	-297683-04	-424728-04	209376-03	101165-01	115226 00	525094 00	775505 00	-356595 00	103656 00	-244311-01	647899-02
7	-146222-04	-139679-04	-757747-05	697797-03	172006-01	150308 00	571980 00	706928 00	-400566 00	129517 00	-445772-01
8	-299388-04	-767814-04	-112461-03	-739777-04	167434-02	267991-01	188522 00	611945 00	636878 00	-413380 00	217339 00
9	-795909-04	-495893-04	-711887-04	-524802-04	121892-03	328975-02	388322-01	226593 00	622416 00	459688 00	-684297 00
10	-130555-03	-594477-04	-854938-04	-875923-04	-882662-04	173166-03	593712-02	605891-01	326461 00	916610 00	105833 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1600$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.3200	0.9949	0.0640	0.0022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0768	-0.3176	0.9671	0.1356	0.0098	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0164	0.0812	-0.3731	0.9290	0.2069	0.0230	0.0015	0.0001	0.0000	0.0000	0.0000
4	0.0033	-0.0185	0.1068	-0.4324	0.8796	0.2748	0.0418	0.0040	0.0002	0.0000	0.0000
5	-0.0006	0.0040	-0.0266	0.1392	-0.4880	0.8199	0.3375	0.0655	0.0081	0.0007	0.0000
6	0.0001	-0.0008	0.0061	-0.0379	0.1762	-0.5368	0.7508	0.3933	0.0937	0.0142	0.0016
7	-0.0000	0.0002	-0.0013	0.0094	-0.0523	0.2162	-0.5774	0.6737	0.4412	0.1255	0.0227
8	0.0001	0.0000	0.0003	-0.0021	0.0139	-0.0699	0.2581	-0.6085	0.5900	0.4802	0.1600
9	0.0001	0.0000	-0.0000	0.0005	-0.0034	0.0199	-0.0905	0.3009	-0.6296	0.5013	0.5095
10	0.0000	0.0000	0.0000	-0.0001	0.0008	-0.0051	0.0276	-0.1141	0.3432	-0.6401	0.4092

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	320000 00	984639 00	-626021-01	640589-02	-774719-03	878160-04	-166730-04	-645864-05	-466269-05	147159-05	-280371-05
2	256826-01	317636 00	960026 00	-131729 00	187158-01	-273734-02	396080-03	-747338-04	-878194-05	446436-05	-298385-05
3	-230829-04	409522-01	376339 00	922758 00	-199671 00	364622-01	-631515-02	103043-02	-185563-03	135463-04	-322201-04
4	-102995-03	234714-02	651955-01	439341 00	874091 00	-263419 00	589943-01	-118380-01	221412-02	-442350-03	883020-04
5	-476799-04	-594794-04	621448-02	953786-01	499330 00	814954 00	-321195 00	856530-01	-196249-01	402607-02	-981675-03
6	-330792-04	-451292-04	286072-03	122642-01	130478 00	553289 00	746600 00	-371546 00	115761 00	-289664-01	849246-02
7	-176372-04	-247061-04	-419878-04	924731-03	208270-01	169741 00	599635 00	670063 00	-414796 00	142489 00	-546553-01
8	-289409-04	-651341-04	-668796-04	-767280-04	217279-02	323697-01	212222 00	637936 00	594253 00	-416267 00	249637 00
9	-769642-04	-360403-04	-217597-04	-621576-04	170286-03	425126-02	467357-01	253209 00	636877 00	379899 00	-736279 00
10	-150320-03	-594605-04	-668942-04	-105274-03	-953313-04	273196-03	776290-02	740262-01	374082 00	985105 00	106671 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1700$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.3400	0.9942	0.0680	0.0025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0867	-0.3372	0.9629	0.1438	0.0110	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0196	0.0916	-0.3949	0.9199	0.2190	0.0259	0.0018	0.0001	0.0000	0.0000	0.0000
	4	0.0042	-0.0222	0.1201	-0.4561	0.8645	0.2898	0.0469	0.0048	0.0003	0.0001	0.0000
	5	-0.0008	0.0050	-0.0318	0.1561	-0.5124	0.7977	0.3544	0.0734	0.0096	0.0009	0.0001
	6	0.0002	-0.0011	0.0078	-0.0452	0.1969	-0.5605	0.7207	0.4107	0.1047	0.0170	0.0020
	7	-0.0000	0.0003	-0.0017	0.0119	-0.0622	0.2406	-0.5989	0.6354	0.4577	0.1397	0.0270
	8	0.0001	0.0000	0.0004	-0.0029	0.0175	-0.0828	0.2859	-0.6263	0.5436	0.4942	0.1772
	9	0.0001	0.0000	-0.0001	0.0007	-0.0046	0.0251	-0.1068	0.3314	-0.6420	0.4469	0.5195
	10	0.0000	0.0000	0.0000	-0.0001	0.0012	-0.0069	0.0346	-0.1340	0.3757	-0.6456	0.3477

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	340000 00	982658 00	-663225-01	721095-02	-924214-03	114245-03	-216517-04	-605684-05	-477518-05	152520-05	-332943-05
	2	290071-01	337164 00	954917 00	-139226 00	210199-01	-326458-02	503632-03	-966734-04	-435649-05	442948-05	-276767-05
	3	-246053-04	462338-01	398813 00	912992 00	-210308 00	403318-01	-751365-02	131223-02	-245633-03	224093-04	-374079-04
	4	-135071-03	280367-02	735195-01	464387 00	858406 00	-276228 00	658326-01	-140558-01	278738-02	-570584-03	125460-03
	5	-357420-04	-172374-04	745246-02	107366 00	525964 00	792346 00	-334965 00	952200-01	-231797-01	501429-02	-133508-02
	6	-256023-04	-181605-04	370605-03	147049-01	146546 00	580220 00	716364 00	-384900 00	128141 00	-338641-01	109729-01
	7	-163422-04	-162820-04	-587651-04	115834-02	249258-01	190091 00	625381 00	631710 00	-427009 00	154860 00	-662725-01
	8	-290944-04	-656547-04	-552543-04	-245036-04	276168-02	386314-01	236369 00	661398 00	551038 00	-413818 00	284680 00
	9	-735061-04	-351882-04	-830528-06	-114176-04	218771-03	540720-02	555468-01	280219 00	645571 00	293468 00	-789575 00
	10	-173213-03	-673023-04	-616326-04	-864046-04	-111215-03	406910-03	998600-02	894240-01	425510 00	105511 01	107573 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1800$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.3600	0.9935	0.0720	0.0028	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0972	-0.3566	0.9583	0.1521	0.0124	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0233	0.1026	-0.4164	0.9103	0.2308	0.0290	0.0022	0.0001	0.0000	0.0000	0.0000
	4	0.0053	-0.0263	0.1341	-0.4792	0.8485	0.3045	0.0524	0.0056	0.0004	0.0001	0.0000
	5	-0.0011	0.0063	-0.0376	0.1738	-0.5357	0.7744	0.3705	0.0818	0.0114	0.0011	0.0001
	6	0.0002	-0.0014	0.0097	-0.0533	0.2184	-0.5826	0.6894	0.4268	0.1161	0.0200	0.0025
	7	-0.0000	0.0004	-0.0023	0.0149	-0.0731	0.2656	-0.8963	0.5953	0.4722	0.1542	0.0317
	8	0.0001	-0.0000	0.0006	-0.0038	0.0218	-0.0970	0.3141	-0.6408	0.4958	0.8439	0.1947
	9	0.0000	0.0000	-0.0001	0.0010	-0.0060	0.0311	-0.1245	0.3619	-0.6502	0.3916	0.5261
	10	0.0000	0.0000	0.0001	-0.0002	0.0016	-0.0091	0.0428	-0.1555	0.4074	-0.6459	0.2858

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	360000 00	980553 00	-700097-01	805939-02	-109156-02	144821-03	-285920-04	-446535-05	-417912-05	184726-05	-514252-05
	2	325375-01	356642 00	949532 00	-146594 00	234317-01	-387095-02	609787-03	-111314-03	-230540-05	544920-05	-351392-05
	3	-265628-04	518371-01	421107 00	902686 00	-220551 00	456381-01	-855309-02	149976-02	-216261-03	339763-04	-100659-03
	4	-167611-03	333516-02	823256-01	488925 00	841220 00	-290947 00	699789-01	-150737-01	236374-02	-732739-03	797709-03
	5	-387373-04	-200421-04	886181-02	120472 00	556169 00	784952 00	-328897 00	963335-01	-191452-01	642410-02	-690105-02
	6	-271557-04	-187976-04	421510-03	156544-01	146710 00	543732 00	612667 00	-366922 00	103603 00	-420680-01	421456-01
	7	-111297-04	-232279-04	121734-04	421579-02	552287-01	307328 00	764325 00	565041 00	-340474 00	103227 00	-174654 00
	8	-712148-04	-684784-04	117437-04	276932-02	295177-01	141327 00	362094 00	573751 00	434837 00	-441181 00	449057 00
	9	-403876-04	-310364-04	298356-04	109021-02	105306-01	436926-01	965127-01	226335 00	538710 00	161155 00	-689519 00
	10	-754273-04	-731980-04	-613838-04	190679-03	253098-02	964975-02	151931-01	592047-01	396321 00	109129 01	119885 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.1900$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.3800	0.9927	0.0760	0.0031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.1083	-0.3761	0.9536	0.1602	0.0138	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0274	0.1141	-0.4377	0.9002	0.2426	0.0323	0.0026	0.0001	0.0000	0.0000	0.0000
4	0.0065	-0.0309	0.1488	-0.5016	0.8318	0.3186	0.0581	0.0066	0.0005	0.0001	0.0000
5	-0.0014	0.0078	-0.0440	0.1922	-0.5580	0.7500	0.3858	0.0904	0.0134	0.0014	0.0001
6	0.0003	-0.0019	0.0120	-0.0622	0.2406	-0.6030	0.6569	0.4417	0.1279	0.0233	0.0030
7	-0.0000	0.0005	-0.0030	0.0183	-0.0850	0.2912	-0.6347	0.5550	0.5014	0.1690	0.0369
8	0.0001	-0.0000	0.0008	-0.0050	0.0268	-0.1124	0.3424	-0.6520	0.4470	0.5143	0.2122
9	0.0000	0.0000	-0.0002	0.0013	-0.0078	0.0381	-0.1437	0.3920	-0.6541	0.3357	0.5292
10	0.0000	0.0000	0.0001	-0.0003	0.0022	-0.0117	0.0522	-0.1785	0.4381	-0.6412	0.2240

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	380001 00	978337 00	-736582-01	894973-02	-127685-02	182304-03	-353999-04	-434717-05	-508875-05	139915-05	-458854-05
2	362728-01	376049 00	943828 00	-153816 00	259604-01	-450209-02	780760-03	-155444-03	103439-04	241094-05	-101944-05
3	-289090-04	577565-01	443184 00	891820 00	-230585 00	501055-01	-103175-01	200515-02	-432480-03	659949-04	-661232-04
4	-206452-03	393156-02	916306-01	513186 00	824605 00	-299891 00	802631-01	-189383-01	441309-02	-105941-02	368887-03
5	-397839-04	-196914-04	104224-01	133304 00	576745 00	743881 00	-359821 00	113578 00	-322682-01	822033-02	-308715-02
6	-359802-04	-274519-04	589647-03	204843-01	181040 00	630382 00	654154 00	-402061 00	156406 00	-470208-01	199998-01
7	665348-06	-139018-04	-629737-04	185331-02	345557-01	232829 00	668214 00	544779 00	-449702 00	179994 00	-980241-01
8	-759632-04	-743028-04	-710983-04	-205678-05	426711-02	527254-01	285315 00	692605 00	459515 00	-386325 00	359416 00
9	-479061-04	-361778-04	233287-05	-665742-05	363800-03	809168-02	743738-01	330423 00	640932 00	101538 00	-902531 00
10	-936263-04	-893177-04	-773563-04	-110570-03	-140980-03	687138-03	152673-01	125341 00	539436 00	120099 01	109500 01

$\gamma = 0.2000$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.4000	0.9920	0.0800	0.0035	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.1200	-0.3954	0.9486	0.1684	0.0153	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0320	0.1263	-0.4587	0.8896	0.2541	0.0357	0.0030	0.0002	0.0000	0.0000	0.0000
4	0.0080	-0.0360	0.1642	-0.5234	0.8142	0.3324	0.0641	0.0077	0.0006	0.0000	0.0000
5	-0.0019	0.0096	-0.0511	0.2114	-0.5790	0.7246	0.4002	0.0994	0.0155	0.0017	0.0001
6	0.0005	-0.0024	0.0147	-0.0720	0.2633	-0.6215	0.6232	0.4552	0.1399	0.0270	0.0037
7	-0.0001	0.0006	-0.0039	0.0223	-0.0981	0.3172	-0.6488	0.5130	0.5126	0.1841	0.0425
8	0.0001	-0.0001	0.0010	-0.0064	0.0326	-0.1291	0.3707	-0.6597	0.3974	0.5203	0.2297
9	0.0000	0.0000	-0.0002	0.0018	-0.0100	0.0461	-0.1643	0.4215	-0.6538	0.2795	0.5289
10	0.0000	0.0000	0.0001	-0.0004	0.0030	-0.0150	0.0629	-0.2029	0.4673	-0.6314	0.1628

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	400001 00	975997 00	-772661-01	988938-02	-146921-02	220271-03	-432928-04	-331578-05	-535154-05	120992-05	-529323-05
2	402145-01	395390 00	937828 00	-160890 00	285919-01	-521860-02	954701-03	-195134-03	211585-04	106484-05	-127379-05
3	-314094-04	639964-01	465054 00	880443 00	-240192 00	549826-01	-119235-01	243963-02	-557646-03	910843-04	-720611-04
4	-251743-03	459347-02	101393 00	536859 00	806544 00	-310701 00	877306-01	-217732-01	536658-02	-131468-02	467500-03
5	-421353-04	-217032-04	121586-01	147204 00	600821 00	718201 00	-370399 00	123408 00	-369046-01	973216-02	-404879-02
6	-396573-04	-335402-04	727382-03	238574-01	199380 00	653221 00	620766 00	-410020 00	168978 00	-525236-01	247504-01
7	144884-05	-128218-04	-650969-04	229432-02	401710-01	255513 00	687627 00	502927 00	-455604 00	188132 00	-115467 00
8	-801261-04	-795750-04	-808572-04	151944-04	523566-02	610836-01	311694 00	707711 00	417855 00	-364583 00	402807 00
9	-483566-04	-355609-04	458025-05	-307353-05	470761-03	987480-02	856191-01	356231 00	628901 00	-668092-02	-960944 00
10	-108046-03	-102629-03	-868479-04	-125019-03	-156408-03	916896-03	188582-01	147324 00	603132 00	127642 01	110578 01

$\gamma = 0.2100$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.4200	0.9911	0.0840	0.0038	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.1323	-0.4147	0.9433	0.1764	0.0168	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0370	0.1390	-0.4793	0.8784	0.2654	0.0392	0.0035	0.0002	0.0000	0.0000	0.0000
	4	0.0097	-0.0416	0.1802	-0.5445	0.7959	0.3457	0.0703	0.0089	0.0007	0.0000	0.0000
	5	-0.0024	0.0117	-0.0589	0.2311	-0.5988	0.6983	0.4139	0.1086	0.0179	0.0020	0.0002
	6	0.0006	-0.0031	0.0177	-0.0827	0.2866	-0.6381	0.5885	0.4673	0.1523	0.0310	0.0044
	7	-0.0001	0.0008	-0.0050	0.0269	-0.1123	0.3434	-0.6602	0.4702	0.5042	0.1993	0.0487
	8	0.0001	-0.0001	0.0014	-0.0081	0.0392	-0.1471	0.3988	-0.6640	0.3472	0.5236	0.2471
	9	0.0000	0.0001	-0.0004	0.0024	-0.0126	0.0552	-0.1861	0.4501	-0.6493	0.2234	0.5252
	10	0.0000	0.0000	0.0001	-0.0006	0.0039	-0.0189	0.0750	-0.2286	0.4947	-0.6168	0.1026

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	420001 00	973538 00	-808269-01	108745-01	-169725-02	270053-03	-544394-04	-148479-05	-578706-05	952085-06	-617377-05
2	443631-01	414661 00	931537 00	-167807 00	313144-01	-599975-02	115271-02	-246374-03	320725-04	456468-06	-202854-05
3	-340539-04	705564-01	486699 00	868548 00	-249426 00	600041-01	-136512-01	297857-02	-680021-03	105818-03	-691205-04
4	-304388-03	532658-02	111626 00	560025 00	787739 00	-320824 00	951860-01	-251625-01	625685-02	-146478-02	441447-03
5	-447032-04	-240472-04	140773-01	161710 00	623980 00	691777 00	-379012 00	134969 00	-409989-01	105658-01	-414098-02
6	-429317-04	-402207-04	888261-03	275752-01	218359 00	674049 00	583945 00	-421568 00	178708 00	-554633-01	270261-01
7	169061-05	-122252-04	-675785-04	280769-02	463917-01	279437 00	707638 00	466112 00	-456742 00	191316 00	-131402 00
8	-859072-04	-865218-04	-930069-04	380619-04	643920-02	711178-01	342934 00	729607 00	382813 00	-339607 00	455204 00
9	-482201-04	-343956-04	690366-05	186521-05	644134-03	124024-01	100019 00	385923 00	611240 00	-125294 00	-101806 01
10	-124841-03	-117957-03	-978815-04	-141200-03	-154297-03	141470-02	241130-01	174202 00	672558 00	135284 01	111845 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2200$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.4400	0.9903	0.0880	0.0042	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.1452	-0.4339	0.9378	0.1845	0.0185	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0426	0.1524	-0.4996	0.8668	0.2766	0.0430	0.0040	0.0002	0.0000	0.0000	0.0000
	4	0.0117	-0.0478	0.1968	-0.5648	0.7769	0.3585	0.0768	0.0102	0.0009	0.0000	0.0000
	5	-0.0030	0.0140	-0.0674	0.2514	-0.6174	0.6710	0.4266	0.1181	0.0204	0.0024	0.0002
	6	0.0008	-0.0039	0.0213	-0.0944	0.3103	-0.6528	0.5528	0.4779	0.1649	0.0354	0.0053
	7	-0.0002	0.0011	-0.0063	0.0321	-0.1276	0.3697	-0.6689	0.4266	0.5108	0.2145	0.0553
	8	0.0001	-0.0002	0.0018	-0.0102	0.0467	-0.1662	0.4264	-0.6648	0.2968	0.5242	0.2642
	9	-0.0000	0.0001	-0.0005	0.0031	-0.0158	0.0654	-0.2092	0.4775	-0.6405	0.1677	0.5180
	10	0.0000	0.0000	0.0002	-0.0009	0.0051	-0.0235	0.0884	-0.2553	0.5200	-0.5972	0.0440

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	440001 00	970958 00	-843515-01	118854-01	-194234-02	326168-03	-675374-04	936761-06	-635979-05	556357-06	-714249-05
2	487196-01	433857 00	924952 00	-174568 00	341302-01	-684901-02	138004-02	-304722-03	474044-04	-212950-05	-113799-05
3	-368389-04	774363-01	508109 00	856143 00	-258269 00	651478-01	-155322-01	355697-02	-847084-03	143213-03	-876446-04
4	-365251-03	613464-02	122326 00	582662 00	768220 00	-330181 00	102859 00	-285121-01	744313-02	-179711-02	604457-03
5	-471168-04	-262825-04	161895-01	176814 00	646167 00	664373 00	-387078 00	144999 00	-463284-01	123048-01	-531587-02
6	-469796-04	-491037-04	106910-02	316325-01	237995 00	693766 00	548494 00	-426298 00	191337 00	-608336-01	330723-01
7	280989-05	-104402-04	-646023-04	342081-02	531668-01	303408 00	722673 00	422348 00	-459988 00	195018 00	-153279 00
8	-914357-04	-928720-04	-981018-04	102471-03	779744-02	811995-01	370818 00	740441 00	345079 00	-301798 00	506303 00
9	-461329-04	-311467-04	147058-04	278833-04	841176-03	148551-01	113397 00	409928 00	582208 00	-250158 00	-107966 01
10	-143830-03	-134952-03	-108089-03	-149749-03	-152756-03	182855-02	293133-01	202151 00	745540 00	143237 01	113095 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2300$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.4600	0.9893	0.0920	0.0046	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.1587	-0.4530	0.9320	0.1925	0.0202	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0486	0.1663	-0.5195	0.8546	0.2875	0.0469	0.0045	0.0003	0.0000	0.0000	0.0000
4	0.0140	-0.0545	0.2140	-0.5844	0.7571	0.3709	0.0835	0.0116	0.0010	0.0001	0.0000
5	-0.0038	0.0167	-0.0767	0.2723	-0.6346	0.6429	0.4384	0.1279	0.0232	0.0029	0.0002
6	0.0010	-0.0049	0.0253	-0.1069	0.3344	-0.6655	0.5163	0.4872	0.1776	0.0400	0.0063
7	-0.0002	0.0014	-0.0078	0.0381	-0.1439	0.3959	-0.6749	0.3824	0.5153	0.2296	0.0623
8	0.0001	-0.0003	0.0024	-0.0126	0.0551	-0.1865	0.4534	-0.6621	0.2463	0.5220	0.2809
9	-0.0000	0.0001	-0.0007	0.0040	-0.0194	0.0768	-0.2334	0.5034	-0.6276	0.1129	0.5075
10	0.0000	-0.0000	0.0002	-0.0012	0.0066	-0.0288	0.1034	-0.2829	0.5428	-0.5731	-0.0127

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	460001 00	968257 00	-878308-01	129339-01	-220870-02	390038-03	-830733-04	405837-05	-715619-05	304767-07	-823675-05
2	532847-01	452976 00	918079 00	-181160 00	370322-01	-776757-02	163775-02	-373790-03	663058-04	-563349-05	159043-06
3	-397707-04	846362-01	529273 00	843239 00	-266708 00	704004-01	-175538-01	420912-02	-104482-02	188900-03	-112039-03
4	-435155-03	702160-02	133487 00	604747 00	748015 00	-338774 00	110600 00	-320825-01	877816-02	-217620-02	814560-03
5	-495331-04	-287046-04	185015-01	192487 00	667340 00	636189 00	-393909 00	154939 00	-520026-01	141498-01	-675877-02
6	-512542-04	-594659-04	128090-02	360830-01	258265 00	711873 00	512330 00	-429177 00	203891 00	-658779-01	401670-01
7	420245-05	-848210-05	-651860-04	410049-02	605047-01	327904 00	735368 00	377879 00	-461978 00	195515 00	-177822 00
8	-978523-04	-100459-03	-111101-03	141969-03	929766-02	921304-01	399043 00	749010 00	310602 00	-254838 00	561188 00
9	-421781-04	-263556-04	202631-04	388888-04	104851-02	176525-01	127610 00	432088 00	543541 00	-383982 00	-114333 01
10	-165523-03	-154222-03	-121239-03	-167801-03	-161530-03	233749-02	353474-01	233238 00	823440 00	151425 01	114423 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2400$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.4800	0.9884	0.0960	0.0050	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.1728	-0.4720	0.9259	0.2004	0.0220	0.0012	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.0553	0.1807	-0.5391	0.8420	0.2983	0.0509	0.0052	0.0003	0.0000	0.0000	0.0000
4	0.0166	-0.0618	0.2318	-0.6032	0.7366	0.3827	0.0904	0.0132	0.0012	0.0001	0.0000
5	-0.0047	0.0198	-0.0866	0.2936	-0.6505	0.6139	0.4493	0.1379	0.0262	0.0034	0.0003
6	0.0013	-0.0060	0.0298	-0.1204	0.3587	-0.6761	0.4791	0.4949	0.1904	0.0451	0.0074
7	-0.0003	0.0018	-0.0096	0.0446	-0.1613	0.4220	-0.6781	0.3378	0.5177	0.2447	0.0698
8	0.0002	-0.0004	0.0030	-0.0155	0.0645	-0.2079	0.4795	-0.6560	0.1960	0.5171	0.2970
9	0.0000	0.0002	-0.0009	0.0051	-0.0238	0.0895	-0.2586	0.5276	-0.6107	0.0592	0.4936
10	0.0000	-0.0000	0.0003	-0.0016	0.0083	-0.0351	0.1197	-0.3113	0.5628	-0.5446	-0.0669

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	479999 00	965437 00	-912627-01	140186-01	-249691-02	462278-03	-101365-03	800278-05	-824521-05	-641724-06	-947429-05
2	580833-01	472014 00	910919 00	-187578 00	400144-01	-875652-02	192799-02	-454899-03	894111-04	-102388-04	201574-05
3	-283476-04	921561-01	550179 00	829347 00	-274727 00	757455-01	-197157-01	493937-02	-127705-02	243815-03	-143960-03
4	-511170-03	799114-02	145104 00	626256 00	727150 00	-346582 00	118372 00	-358665-01	102715-01	-260228-02	108255-02
5	-513884-04	-300504-04	210309-01	208728 00	687469 00	607284 00	-399485 00	164723 00	-580198-01	160692-01	-851691-02
6	-557001-04	-748830-04	150385-02	408945-01	279113 00	728332 00	475569 00	-430172 00	216356 00	-703917-01	484434-01
7	593895-05	-362754-05	-506531-04	489727-02	684443-01	352838 00	745674 00	332808 00	-463014 00	192212 00	-205255 00
8	-105446-03	-103707-03	-929531-04	239218-03	109847-01	103911 00	427517 00	755501 00	280273 00	-197929 00	620068 00
9	-358881-04	-161830-04	468748-04	818611-04	128504-02	208118-01	142597 00	451871 00	494363 00	-527366 00	-120928 01
10	-190313-03	-174030-03	-124496-03	-170375-03	-175442-03	295373-02	423199-01	267748 00	906652 00	159891 01	115852 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2500$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.5000	0.9874	0.1000	0.0054	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.1875	-0.4910	0.9196	0.2083	0.0238	0.0014	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.0625	0.1958	-0.5583	0.8288	0.3088	0.0551	0.0058	0.0004	0.0000	0.0000	0.0000
	4	0.0195	-0.0698	0.2501	-0.6212	0.7154	0.3940	0.0975	0.0149	0.0014	0.0001	0.0000
	5	-0.0058	0.0232	-0.0974	0.3154	-0.6650	0.5842	0.4592	0.1481	0.0295	0.0040	0.0004
	6	0.0017	-0.0074	0.0349	-0.1347	0.3831	-0.6847	0.4412	0.5010	0.2034	0.0504	0.0087
	7	-0.0005	0.0023	-0.0118	0.0521	-0.1797	0.4476	-0.6786	0.2930	0.5179	0.2595	0.0778
	8	0.0002	-0.0006	0.0038	-0.0188	0.0749	-0.2304	0.5045	-0.6464	0.1462	0.5094	0.3124
	9	-0.0000	0.0002	-0.0012	0.0065	-0.0288	0.1034	-0.2846	0.5497	-0.5898	0.0071	0.4767
	10	0.0000	-0.0000	0.0004	-0.0021	0.0105	-0.0423	0.1376	-0.3400	0.5797	-0.5120	-0.1183

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	499999 00	962497 00	-946454-01	151383-01	-280752-02	543512-03	-122748-03	129102-04	-970223-05	-147366-05	-108732-04
2	630699-01	490966 00	903475 00	-193813 00	430708-01	-981666-02	225291-02	-549441-03	117438-03	-161334-04	463732-05
3	-297594-04	999960-01	570816 00	815978 00	-282314 00	811658-01	-220167-01	575179-02	-154795-02	308621-03	-185560-03
4	-601229-03	904772-02	157173 00	647169 00	705667 00	-353585 00	126141 00	-398544-01	119337-01	-307217-02	142231-02
5	-536541-04	-324964-04	237734-01	225499 00	706524 00	577722 00	-403788 00	174281 00	-643860-01	180108-01	-106505-01
6	-603938-04	-897291-04	177693-02	461374-01	300477 00	743108 00	438330 00	-429246 00	228769 00	-740958-01	580759-01
7	814282-05	-681625-06	-509923-04	577322-02	770171-01	378127 00	753541 00	287197 00	-463527 00	184349 00	-235893 00
8	-114551-03	-113256-03	-107299-03	296926-03	129070-01	116547 00	456159 00	760179 00	255149 00	-130092 00	683252 00
9	-267395-04	-628896-05	575605-04	992682-04	157478-02	243522-01	158286 00	468729 00	433862 00	-680727 00	-127756 01
10	-218534-03	-197980-03	-138609-03	-190080-03	-183670-03	368986-02	503243-01	305861 00	995165 00	168602 01	117347 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2600$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.5200	0.9863	0.1040	0.0059	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.2028	-0.5098	0.9131	0.2161	0.0258	0.0016	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.0703	0.2114	-0.5771	0.8152	0.3190	0.0594	0.0066	0.0004	0.0000	0.0000	0.0000
	4	0.0229	-0.0783	0.2690	-0.6383	0.6936	0.4047	0.1048	0.0167	0.0017	0.0001	0.0000
	5	-0.0071	0.0271	-0.1089	0.3375	-0.6780	0.5539	0.4681	0.1584	0.0330	0.0047	0.0004
	6	0.0022	-0.0089	0.0406	-0.1501	0.4075	-0.6913	0.4029	0.5057	0.2163	0.0562	0.0101
	7	-0.0006	0.0029	-0.0142	0.0603	-0.1991	0.4728	-0.6762	0.2481	0.5160	0.2740	0.0861
	8	0.0003	-0.0008	0.0048	-0.0226	0.0863	-0.2537	0.5283	-0.6334	0.0971	0.4991	0.3270
	9	-0.0000	0.0003	-0.0016	0.0081	-0.0345	0.1186	-0.3113	0.5696	-0.5652	-0.0433	0.4567
	10	0.0000	-0.0001	0.0005	-0.0028	0.0131	-0.0505	0.1569	-0.3689	0.5932	-0.4756	-0.1664

U^{-1}												
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	519998 00	959437 00	-979764-01	162920-01	-314060-02	634149-03	-147500-03	189043-04	-116114-04	-248785-05	-124621-04
2	682679-01	509830 00	895748 00	-199865 00	461898-01	-109457-01	261355-02	-658515-03	151077-03	-234821-04	826706-05
3	-312098-04	108156 00	591178 00	801662 00	-289435 00	866323-01	-244501-01	664849-02	-186147-02	383669-03	-239353-03
4	-703119-03	101954-01	169692 00	667482 00	683607 00	-359771 00	133869 00	-440338-01	137754-01	-358078-02	184938-02
5	-558641-04	-349288-04	267452-01	242788 00	724458 00	547552 00	-406794 00	183534 00	-711061-01	199132-01	-132228-01
6	-653114-04	-107110-03	208663-02	518056-01	322345 00	756179 00	400727 00	-426359 00	241176 00	-766948-01	692331-01
7	109697-04	297599-05	-492502-04	677468-02	862683-01	403719 00	758903 00	241108 00	-463989 00	171177 00	-270008 00
8	-125586-03	-124572-03	-123090-03	372935-03	150905-01	130068 00	484875 00	763364 00	236330 00	-503814-01	750986 00
9	-140761-04	663464-05	705071-04	122449-03	192347-02	283059-01	174574 00	482031 00	361043 00	-844727 00	-134840 01
10	-250647-03	-224883-03	-154206-03	-211066-03	-187709-03	456778-02	594778-01	347887 00	108939 01	177602 01	118931 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2700$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.5400	0.9853	0.1080	0.0064	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.2187	-0.5286	0.9063	0.2238	0.0278	0.0018	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.0787	0.2275	-0.5955	0.8011	0.3290	0.0639	0.0073	0.0005	0.0000	0.0000	0.0000
4	0.0266	-0.0875	0.2883	-0.6545	0.6711	0.4149	0.1123	0.0186	0.0020	0.0001	0.0000
5	-0.0086	0.0315	-0.1213	0.3599	-0.6896	0.5228	0.4760	0.1689	0.0367	0.0054	0.0005
6	0.0027	-0.0108	0.0470	-0.1663	0.4319	-0.6956	0.3641	0.5087	0.2291	0.0622	0.0117
7	-0.0008	0.0036	-0.0171	0.0695	-0.2195	0.4972	-0.6711	0.2034	0.5119	0.2881	0.0949
8	0.0003	-0.0012	0.0060	-0.0271	0.0989	-0.2779	0.5505	-0.6172	0.0490	0.4862	0.3407
9	-0.0001	0.0004	-0.0020	0.0101	-0.0411	0.1352	-0.3386	0.5871	-0.5371	-0.0914	0.4338
10	0.0000	-0.0001	0.0007	-0.0036	0.0162	-0.0599	0.1777	-0.3978	0.6032	-0.4357	-0.2110

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	539998 00	956257 00	-101254 00	174774-01	-349738-02	735241-03	-176106-03	264671-04	-133022-04	-245222-05	-134671-04
2	736775-01	528601 00	887745 00	-205717 00	493749-01	-121494-01	301340-02	-787383-03	182106-03	-471911-04	380355-05
3	-274120-04	116636 00	611245 00	786875 00	-296118 00	921500-01	-270198-01	764764-02	-218779-02	525366-03	-272477-03
4	-838334-03	114393-01	182647 00	687138 00	660964 00	-365115 00	141524 00	-483812-01	158408-01	-407020-02	241438-02
5	-317996-04	-443873-04	299548-01	260579 00	741265 00	516878 00	-408520 00	192425 00	-781883-01	217142-01	-162973-01
6	-131685-04	-105061-03	243161-02	578973-01	344628 00	767479 00	362911 00	-421480 00	253680 00	-778269-01	821151-01
7	164675-04	-334588-04	-435483-04	788618-02	961385-01	429473 00	761756 00	194534 00	-464977 00	151827 00	-307920 00
8	-119452-03	-118236-03	-144401-03	454103-03	175075-01	144448 00	513624 00	765438 00	225069 00	422733-01	823571 00
9	184299-04	473829-04	828976-04	147100-03	232146-02	326823-01	191351 00	491083 00	274869 00	-102002 01	-142197 01
10	-227594-03	-150189-03	-182734-03	-233350-03	-192719-03	560349-02	699068-01	394120 00	118962 01	186909 01	120606 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2800$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.5600	0.9841	0.1120	0.0068	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.2352	-0.5473	0.8992	0.2315	0.0299	0.0020	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.0878	0.2442	-0.6135	0.7865	0.3387	0.0686	0.0082	0.0005	0.0000	0.0000	0.0000
4	0.0307	-0.0974	0.3081	-0.6699	0.6480	0.4245	0.1199	0.0207	0.0023	0.0001	0.0000
5	-0.0103	0.0363	-0.1344	0.3326	-0.6997	0.4912	0.4828	0.1794	0.0407	0.0062	0.0006
6	0.0034	-0.0129	0.0540	-0.1835	0.4561	-0.6978	0.3251	0.5102	0.2419	0.0686	0.0134
7	-0.0010	0.0045	-0.0204	0.0795	-0.2408	0.5209	-0.6631	0.1590	0.5058	0.3017	0.1041
8	0.0003	-0.0015	0.0075	-0.0322	0.1127	-0.3029	0.5711	-0.5977	0.0022	0.4707	0.3534
9	-0.0001	0.0005	-0.0026	0.0124	-0.0486	0.1531	-0.3661	0.6018	-0.5056	-0.1371	0.4083
10	0.0001	-0.0001	0.0009	-0.0046	0.0199	-0.0704	0.1998	-0.4263	0.6094	-0.3928	-0.2516

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	559999 00	952956 00	-104476 00	186934-01	-387754-02	849708-03	-200537-03	472381-04	-128447-04	-135461-05	-139924-05
2	792934-01	547275 00	879465 00	-211368 00	526145-01	-134235-01	345934-02	-924892-03	230609-03	-585036-04	178791-04
3	-691758-06	125436 00	631009 00	771646 00	-302331 00	976897-01	-297208-01	873035-02	-259897-02	625095-03	-358189-03
4	-941225-03	127812-01	196037 00	706132 00	637792 00	-369608 00	149066 00	-528973-01	180864-01	-461844-02	307922-02
5	-323757-04	-480050-04	334108-01	278849 00	756904 00	485752 00	-408954 00	200861 00	-856785-01	232755-01	-199824-01
6	120140-04	-126468-03	282038-02	644323-01	367301 00	776999 00	325003 00	-414558 00	266415 00	-770784-01	969363-01
7	-189521-04	-299020-04	-407604-04	913022-02	106675 00	455331 00	762036 00	147454 00	-467193 00	125331 00	-349982 00
8	-114080-03	-133700-03	-166920-03	547829-03	201972-01	159708 00	542340 00	766886 00	222751 00	149041 00	901334 00
9	520372-04	600004-04	101265-03	175068-03	278326-02	375083-01	208469 00	495132 00	174210 00	-120732 01	-149847 01
10	-143512-03	-169186-03	-204129-03	-259903-03	-195211-03	682092-02	817435-01	444875 00	129620 01	196544 01	122377 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.2900$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.5800	0.9830	0.1160	0.0073	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.2523	-0.5659	0.8919	0.2391	0.0321	0.0022	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.0976	0.2615	-0.6310	0.7715	0.3482	0.0733	0.0091	0.0006	0.0000	0.0000	0.0000
	4	0.0354	-0.1080	0.3283	-0.6843	0.6243	0.4335	0.1277	0.0229	0.0026	0.0002	0.0000
	5	-0.0123	0.0417	-0.1484	0.4054	-0.7082	0.4591	0.4885	0.1901	0.0449	0.0071	0.0008
	6	0.0042	-0.0153	0.0617	-0.2015	0.4800	-0.6978	0.2858	0.5100	0.2545	0.0753	0.0153
	7	-0.0013	0.0055	-0.0242	0.0905	-0.2629	0.5436	-0.6525	0.1151	0.4975	0.3148	0.1136
	8	0.0005	-0.0019	0.0091	-0.0379	0.1275	-0.3285	0.5898	-0.5751	-0.0431	0.4528	0.3648
	9	-0.0001	0.0007	-0.0033	0.0152	-0.0570	0.1722	-0.3938	0.6136	-0.4710	-0.1799	0.3802
	10	0.0001	-0.0002	0.0012	-0.0058	0.0242	-0.0821	0.2232	-0.4542	0.6116	-0.3472	-0.2880

U^{-1}	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 02
	1	579999 00	949536 00	-107641 00	199385-01	-428198-02	973555-03	-237336-03	581494-04	-164249-04	-762102-06	-187511-05
	2	851308-01	565851 00	870916 00	-216811 00	559015-01	-147703-01	394378-02	-108842-02	285977-03	-719632-04	275643-04
	3	-196840-05	134548 00	650446 00	755993 00	-308063 00	103233 00	-325487-01	990612-02	-306988-02	733428-03	-469629-03
	4	-108150-02	142430-01	209879 00	724437 00	614127 00	-373240 00	156461 00	-575536-01	205557-01	-516202-02	389923-02
	5	-323023-04	-310500-04	371546-01	297570 00	771348 00	454245 00	-408099 00	208763 00	-936073-01	244824-01	-243660-01
	6	155482-04	-141042-03	327028-02	714195-01	390318 00	784714 00	287141 00	-405531 00	279585 00	-739554-01	113944 00
	7	-138394-04	-219766-04	-317884-04	105151-01	117889 00	481206 00	759697 00	997873-01	-471463 00	906105-01	-396578 00
	8	-129667-03	-150828-03	-192290-03	655596-03	231779-01	175851 00	570991 00	768283 00	230913 00	271197 00	984632 00
	9	646779-04	753237-04	123121-03	207402-03	331633-02	428029-01	225757 00	493344 00	578449-01	-140739 01	-157811 01
	10	-161865-03	-190577-03	-227989-03	-289473-03	-194933-03	824469-02	951330-01	500489 00	140948 01	206529 01	124248 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3000$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.6000	0.9818	0.1200	0.0079	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.2700	-0.5843	0.8843	0.2467	0.0343	0.0024	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.1080	0.2792	-0.6480	0.7560	0.3575	0.0782	0.0101	0.0007	0.0000	0.0000	0.0000
	4	0.0405	-0.1193	0.3489	-0.6977	0.6001	0.4418	0.1357	0.0253	0.0030	0.0002	0.0000
	5	-0.0146	0.0476	-0.1632	0.4284	-0.7152	0.4266	0.4932	0.2008	0.0493	0.0081	0.0009
	6	0.0051	-0.0181	0.0702	-0.2205	0.5035	-0.6956	0.2466	0.5083	0.2669	0.0824	0.0174
	7	-0.0017	0.0067	-0.0285	0.1024	-0.2859	0.5651	-0.6391	0.0718	0.4872	0.3271	0.1235
	8	0.0006	-0.0024	0.0111	-0.0444	0.1436	-0.3545	0.6064	-0.5496	-0.0867	0.4326	0.3750
	9	-0.0002	0.0009	-0.0042	0.0184	-0.0665	0.1927	-0.4214	0.6223	-0.4335	-0.2198	0.1990
	10	0.0001	-0.0003	0.0016	-0.0073	0.0291	-0.0952	0.2479	-0.4811	0.6097	-0.2994	-0.3198

U^{-1}	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05	000000 02
	1	599998 00	945996 00	-110746 00	212110-01	-471067-02	110958-02	-279211-03	709544-04	-207823-04	-373638-07	-253803-05
	2	911836-01	584320 00	862095 00	-222039 00	592288-01	-161883-01	447065-02	-128418-02	321522-03	-129593-03	157536-04
	3	-220007-05	143987 00	669571 00	739922 00	-313303 00	108761 00	-354763-01	112846-01	-331614-02	126028-02	-371192-03
	4	-124009-02	157967-01	224117 00	742046 00	590004 00	-376012 00	163531 00	-630401-01	213235-01	-843210-02	330030-02
	5	-361011-04	-343460-04	411317-01	316734 00	784566 00	422485 00	-405344 00	219209 00	-933995-01	374144-01	-224371-01
	6	207007-04	-165607-03	375770-02	788833-01	413629 00	790454 00	247790 00	-402865 00	270174 00	-100899 00	114200 00
	7	-966528-05	-174386-04	-281047-04	120503-01	129787 00	507109 00	755840 00	572360-01	-462327 00	690528-01	-434981 00
	8	-164535-03	-190871-03	-246322-03	749637-03	264502-01	193790 00	609698 00	821928 00	391940 00	609574 00	118992 01
	9	146306-03	171687-03	241244-03	361957-03	399830-02	449839-01	202949 00	280787 00	-631581 00	-240936 01	-211988 01
	10	-271400-03	-319011-03	-378321-03	-479170-03	-284292-03	147170-01	163836 00	834285 00	227378 01	322359 01	187605 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3100$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.6200	0.9805	0.1240	0.0084	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.2883	-0.6027	0.8764	0.2541	0.0366	0.0027	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.1192	0.2975	-0.6645	0.7400	0.3664	0.0833	0.0111	0.0008	0.0000	0.0000	0.0000
4	0.0462	-0.1313	0.3699	-0.7102	0.5754	0.4495	0.1438	0.0278	0.0034	0.0002	0.0000
5	-0.0172	0.0542	-0.1788	0.4514	-0.7205	0.3936	0.4967	0.2114	0.0540	0.0092	0.0011
6	0.0062	-0.0213	0.0795	-0.2403	0.5264	-0.6912	0.2073	0.5049	0.2790	0.0898	0.0197
7	-0.0022	0.0082	-0.0333	0.1154	-0.3095	0.5854	-0.6231	0.0294	0.4748	0.3388	0.1337
8	0.0008	-0.0030	0.0135	-0.0517	0.1609	-0.3809	0.6208	-0.5213	-0.1284	0.4102	0.3838
9	-0.0002	0.0011	-0.0052	0.0221	-0.0770	0.2144	-0.4487	0.6278	-0.3935	-0.2563	0.3174
10	0.0001	-0.0004	0.0020	-0.0090	0.0349	-0.1096	0.2737	-0.5067	0.6036	-0.2499	-0.3470

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 02
1	619998 00	942336 00	-113789 00	225091-01	-516384-02	125841-02	-326626-03	859072-04	-260357-04	863222-06	-342678-05
2	974530-01	602682 00	853008 00	-227048 00	625891-01	-176760-01	504821-02	-148088-02	428524-03	-104028-03	573732-04
3	-238378-05	153746 00	688360 00	723448 00	-318043 00	114253 00	-385609-01	125464-01	-421832-02	964633-03	-789961-03
4	-141669-02	174621-01	238772 00	758939 00	565465 00	-377883 00	170666 00	-671879-01	262533-01	-611523-02	613616-02
5	-378553-04	-356675-04	453796-01	336294 00	796523 00	390390 00	-402575 00	222598 00	-111042 00	251491-01	-356977-01
6	204321-04	-201028-03	429288-02	868281-01	437186 00	794653 00	212135 00	-380830 00	308389 00	-582102-01	155646 00
7	-124756-06	-566970-05	-485233-05	137948-01	142413 00	532618 00	746971 00	203751-02	-490232 00	-846400-02	-505101 00
8	-168740-03	-193845-03	-248489-03	952806-03	301100-01	210776 00	628074 00	773774 00	285700 00	567377 00	116942 01
9	982916-04	116008-03	183083-03	301434-03	463947-02	548551-01	260007 00	468501 00	-227418 00	-184927 01	-174772 01
10	-206046-03	-241579-03	-282053-03	-352488-03	-178654-03	118190-01	127213 00	627769 00	165771 01	227649 01	128311 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3200$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.6400	0.9792	0.1280	0.0090	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.3072	-0.6209	0.8683	0.2615	0.0390	0.0030	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.1311	0.3163	-0.6806	0.7236	0.3750	0.0884	0.0122	0.0009	0.0000	0.0000	0.0000
4	0.0524	-0.1441	0.3912	-0.7216	0.5501	0.4566	0.1520	0.0305	0.0039	0.0003	0.0000
5	-0.0201	0.0613	-0.1952	0.4744	-0.7243	0.3604	0.4991	0.2221	0.0589	0.0105	0.0012
6	0.0075	-0.0249	0.0896	-0.2609	0.5488	-0.6846	0.1683	0.5000	0.2907	0.0974	0.0222
7	-0.0027	0.0099	-0.0388	0.1294	-0.3338	0.6042	-0.6046	-0.0120	0.4605	0.3495	0.1441
8	0.0010	-0.0038	0.0162	-0.0599	0.1793	-0.4075	0.6328	-0.4903	-0.1679	0.3856	0.3911
9	-0.0003	0.0014	-0.0065	0.0264	-0.0887	0.2373	-0.4754	0.6298	-0.3513	-0.2893	0.2832
10	0.0002	-0.0005	0.0026	-0.0112	0.0415	-0.1254	0.3005	-0.5309	0.5932	-0.1990	-0.3692

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 02
1	639998 00	938555 00	-116768 00	238312-01	-564153-02	142072-02	-380045-03	103224-03	-323529-04	189574-05	-462291-05
2	103940 00	620931 00	843658 00	-231830 00	659742-01	-192334-01	567128-02	-171258-02	518664-03	-122058-03	792986-04
3	-263183-05	163825 00	706802 00	706591 00	-322267 00	119697 00	-417306-01	140084-01	-491074-02	107718-02	-101334-02
4	-161193-02	192441-01	253831 00	775080 00	540526 00	-378896 00	177403 00	-720969-01	295316-01	-643804-02	762895-02
5	-406818-04	-376954-04	499157-01	356265 00	807235 00	358193 00	-397943 00	228316 00	-120733 00	241668-01	-429169-01
6	230952-04	-238661-03	488409-02	952608-01	460951 00	796909 00	175318 00	-364940 00	324828 00	-441619-01	180984 00
7	954920-05	531739-05	712949-05	156757-01	155712 00	557977 00	736410 00	-485760-01	-507161 00	-756584-01	-567958 00
8	-193097-03	-220920-03	-288918-03	111919-02	341044-01	229663 00	656671 00	779604 00	336258 00	744582 00	127171 01
9	120378-03	142429-03	219054-03	349705-03	540666-02	615268-01	276300 00	443340 00	-399213 00	-209296 01	-183807 01
10	-232529-03	-272029-03	-314446-03	-389578-03	-141552-03	141202-01	146369 00	700235 00	179343 01	238834 01	130505 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3300$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.6600	0.9779	0.1320	0.0096	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.3267	-0.6391	0.8600	0.2689	0.0415	0.0033	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.1437	0.3356	-0.6962	0.7068	0.3834	0.0937	0.0134	0.0010	0.0000	-0.0000	0.0000
	4	0.0593	-0.1576	0.4128	-0.7320	0.5244	0.4629	0.1603	0.0333	0.0044	0.0003	0.0000
	5	-0.0235	0.0692	-0.2125	0.4973	-0.7264	0.3269	0.5004	0.2327	0.0641	0.0118	0.0014
	6	0.0091	-0.0290	0.1006	-0.2823	0.5705	-0.6759	0.1296	0.4934	0.3021	0.1054	0.0249
	7	-0.0034	0.0118	-0.0449	0.1445	-0.3587	0.6215	-0.5835	-0.0521	0.4443	0.3594	0.1548
	8	0.0013	-0.0046	0.0193	-0.0690	0.1989	-0.4341	0.6423	-0.4569	-0.2049	0.3592	0.3968
	9	-0.0004	0.0018	-0.0080	0.0314	-0.1016	0.2613	-0.5013	0.6284	-0.3071	-0.3186	0.2474
	10	0.0002	-0.0007	0.0033	-0.0137	0.0490	0.0015	0.3281	-0.5531	0.5786	-0.1474	-0.3865

U^{-1} 0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 02
1	659998 00	934655 00	-119682 00	251758-01	-614316-02	159727-02	-440354-03	123453-03	-400933-04	308361-05	-628896-05
2	110647 00	639063 00	834048 00	-236387 00	693648-01	-208623-01	635012-02	-197428-02	626691-03	-141103-03	108765-03
3	-291598-05	174224 00	724895 00	689432 00	-325822 00	125123 00	-450754-01	156111-01	-572441-02	118188-02	-130380-02
4	-182742-02	211471-01	269215 00	789944 00	514132 00	-379451 00	184395 00	-773518-01	333400-01	-661106-02	951396-02
5	-437841-04	-398633-04	551533-01	379411 00	822742 00	328327 00	-395033 00	234830 00	-132256 00	220982-01	-517844-01
6	271524-04	-280999-03	386656-02	927160-01	459949 00	787342 00	151086 00	-353549 00	347331 00	-255177-01	211379 00
7	175894-04	153800-04	508877-02	525969-01	245295 00	613141 00	686726 00	-792725-01	-543328 00	-154769 00	-642091 00
8	-212782-03	-244465-03	-113182-01	-742427-01	-125378 00	183979 00	763886 00	742156 00	431743 00	939188 00	139169 01
9	134642-03	162832-03	156255-01	106103 00	235504 00	160279 00	181835 00	473511 00	-629686 00	-234706 01	-194708 01
10	-254060-03	-298644-03	-109102-01	-730756-01	-157642 00	-461845-01	243316 00	734218 00	196298 01	250052 01	133820 01

$\gamma = 0.3400$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.6800	0.9765	0.1360	0.0102	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.3468	-0.6571	0.8514	0.2761	0.0441	0.0036	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.1572	0.3554	-0.7112	0.6895	0.3914	0.0991	0.0147	0.0012	0.0000	-0.0000	0.0000
	4	0.0668	-0.1719	0.4347	-0.7413	0.4983	0.4686	0.1686	0.0363	0.0049	0.0004	0.0000
	5	-0.0273	0.0778	-0.2306	0.5200	-0.7269	0.2932	0.5005	0.2432	0.0695	0.0132	0.0017
	6	0.0108	-0.0336	0.1125	-0.3045	0.5914	-0.6650	0.0913	0.4853	0.3130	0.1136	0.0278
	7	-0.0042	0.0141	-0.0517	0.1607	-0.3840	0.6370	-0.5600	-0.0909	0.4262	0.3683	0.1656
	8	0.0016	-0.0057	0.0229	-0.0791	0.2197	-0.4607	0.6490	-0.4212	-0.2394	0.3309	0.4008
	9	-0.0006	0.0023	-0.0098	0.0371	-0.1157	0.2864	-0.5263	0.6233	-0.2614	-0.3440	0.2104
	10	0.0003	-0.0009	0.0042	-0.0167	0.0575	-0.1614	0.3563	-0.5731	0.5597	-0.0956	-0.3986

U^{-1} 0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05	000000 02
1	679998 00	930635 00	-122528 00	265401-01	-667091-02	178781-02	-506985-03	146221-03	-491170-04	432373-05	-839921-05
2	117574 00	657075 00	824185 00	-240694 00	727908-01	-225461-01	706740-02	-225603-02	748607-03	-159060-03	144929-03
3	-321545-05	184943 00	742599 00	671776 00	-329158 00	130334 00	-483647-01	172176-01	-659679-02	125412-02	-164404-02
4	-206485-02	231756-01	285141 00	805061 00	489672 00	-378222 00	189996 00	-819410-01	371850-01	-646216-02	116364-01
5	-461170-04	-412050-04	598757-01	397276 00	824744 00	293579 00	-385105 00	236774 00	-142864 00	180963-01	-613396-01
6	285518-04	-332472-03	624857-02	113634 00	508809 00	795807 00	103803 00	-325155 00	364615 00	748073-03	242567 00
7	365524-04	360922-04	401277-04	199981-01	184380 00	607455 00	706646 00	-155293 00	-564071 00	-253759 00	-713830 00
8	-254707-03	-289175-03	-390925-03	152932-02	432504-01	270058 00	713994 00	802916 00	495757 00	116640 01	149894 01
9	178466-03	211504-03	308551-03	448484-03	720922-02	764365-01	306222 00	361487 00	-810150 00	-263120 01	-203174 01
10	-296226-03	-344838-03	-389456-03	-464136-03	-119633-04	197281-01	191493 00	865036 00	209088 01	262601 01	135283 01

$\gamma = 0.3500$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.7000	0.9751	0.1400	0.0108	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.3675	-0.6750	0.8425	0.2832	0.0467	0.0039	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.1715	0.3756	-0.7257	0.6719	0.3991	0.1047	0.0160	0.0013	0.0000	-0.0000	0.0000
4	0.0751	-0.1870	0.4568	-0.7496	0.4717	0.4736	0.1771	0.0394	0.0055	0.0004	0.0000
5	-0.0315	0.0871	-0.2495	0.5425	-0.7257	0.2594	0.4995	0.2536	0.0752	0.0148	0.0019
6	0.0129	-0.0387	0.1253	-0.3273	0.6113	-0.6520	0.0535	0.4756	0.3234	0.1221	0.0310
7	-0.0051	0.0167	-0.0593	0.1779	-0.4096	0.6507	-0.5342	-0.1282	0.4064	0.3760	0.1766
8	0.0020	-0.0070	0.0271	-0.0902	0.2416	-0.4868	0.6530	-0.3835	-0.2711	0.3011	0.4031
9	-0.0008	0.0029	-0.0119	0.0436	-0.1311	0.3124	-0.5499	0.6146	-0.2146	-0.3653	0.1724
10	0.0003	-0.0011	0.0052	-0.0202	0.0671	-0.1816	0.3850	-0.5906	0.5367	-0.0439	-0.4055

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05
1	699998 00	926495 00	-125303 00	279231-01	-722246-02	199378-02	-581536-03	172461-03	-600664-04	560586-05	-112508-04
2	124722 00	674962 00	814069 00	-244765 00	762059-01	-242979-01	784275-02	-257002-02	893552-03	-175421-03	192352-03
3	-355278-05	195982 00	759932 00	653851 00	-331807 00	135494 00	-518105-01	189537-01	-761829-02	129016-02	-207826-02
4	-232564-02	253345-01	301376 00	818862 00	463826 00	-376553 00	195789 00	-867698-01	416733-01	-597949-02	142779-01
5	-485512-04	-424943-04	653180-01	418267 00	831518 00	261333 00	-376988 00	239201 00	-155747 00	122261-01	-729533-01
6	311419-04	-390364-03	702987-02	123596 00	532805 00	792485 00	694951-01	-300762 00	389524 00	338111-01	279712 00
7	549960-04	571328-04	630654-04	224737-01	199790 00	631420 00	687196 00	-212652 00	-607866 00	-368635 00	-798095 00
8	-293654-03	-332140-03	-455831-03	176409-02	483919-01	291522 00	743104 00	823191 00	610085 00	141522 01	162493 01
9	216195-03	256033-03	365179-03	520235-03	834199-02	847392-01	318960 00	301895 00	-105300 01	-292820 01	-213553 01
10	-334381-03	-388162-03	-433697-03	-515564-03	330692-04	230787-01	218000 00	958429 00	225357 01	275248 01	137870 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3600$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.7200	0.9736	0.1440	0.0114	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.3888	-0.6927	0.8334	0.2903	0.0494	0.0043	0.0000	-0.0000	0.0000	0.0000	0.0000
3	-0.1866	0.3964	-0.7396	0.6538	0.4065	0.1103	0.0174	0.0015	0.0000	-0.0000	0.0000
4	0.0840	-0.2029	0.4791	-0.7567	0.4448	0.4779	0.1856	0.0427	0.0062	0.0005	0.0000
5	-0.0363	0.0971	-0.2692	0.5647	-0.7229	0.2256	0.4973	0.2639	0.0810	0.0165	0.0022
6	0.0153	-0.0444	0.1390	-0.3508	0.6302	-0.6369	0.0164	0.4643	0.3332	0.1308	0.0344
7	-0.0062	0.0197	-0.0678	0.1963	-0.4355	0.6625	-0.5062	-0.1638	0.3849	0.3827	0.1877
8	0.0025	-0.0085	0.0318	-0.1024	0.2647	-0.5125	0.6541	-0.3440	-0.2999	0.2699	0.4036
9	-0.0010	0.0036	-0.0144	0.0509	-0.1478	0.3393	-0.2400	0.6023	-0.1670	-0.3824	0.1338
10	0.0004	-0.0015	0.0064	-0.0242	0.0779	-0.2032	0.4140	-0.6053	0.5096	0.0070	-0.4073

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05	000000 02
1	719998 00	922234 00	-128007 00	293222-01	-779964-02	221368-02	-664274-03	202865-03	-740913-04	662820-05	-157075-04
2	132095 00	692720 00	803706 00	-248579 00	796487-01	-260623-01	867326-02	-293018-02	108854-02	-183053-03	272413-03
3	-371984-05	207343 00	776871 00	635547 00	-334144 00	140199 00	-553447-01	208801-01	-895629-02	123363-02	-274683-02
4	-261242-02	276226-01	317994 00	832066 00	438658 00	-372724 00	201267 00	-918987-01	473913-01	-488303-02	179715-01
5	-481857-04	-296464-04	710865-01	439377 00	836264 00	228253 00	-367864 00	240519 00	-170774 00	372156-02	-868948-01
6	298430-04	-460203-03	767263-02	130805 00	543119 00	768035 00	355409-01	-266212 00	408848 00	738551-01	313915 00
7	798506-04	-884792-05	135759-02	470612-01	306758 00	783173 00	670406 00	-318331 00	-596631 00	-491502 00	-838473 00
8	-347443-03	-776022-04	-479015-02	-715032-01	-251258 00	-117716 00	752983 00	100114 01	522028 00	165125 01	158393 01
9	295752-03	-174712-03	871439-02	141569 00	594931 00	921168 00	367637 00	-594315-01	-883313 00	-316655 01	-190671 01
10	-395166-03	614954-04	-776504-02	-125881 00	-520102 00	-708659 00	213668 00	131511 01	203499 01	281426 01	110585 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3700$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.7400	0.9721	0.1480	0.0121	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.4107	-0.7103	0.8240	0.2973	0.0522	0.0046	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.2026	0.4176	-0.7529	0.6353	0.4135	0.1161	0.0189	0.0016	0.0000	-0.0000	0.0000
	4	0.0937	-0.2197	0.5015	-0.7628	0.4175	0.4814	0.1942	0.0462	0.0069	0.0006	0.0000
	5	-0.0416	0.1081	-0.2897	0.5865	-0.7184	0.1918	0.4939	0.2739	0.0872	0.0183	0.0026
	6	0.0180	-0.0507	0.1538	-0.3750	0.6479	-0.6198	-0.0198	0.4516	0.3424	0.1397	0.0380
	7	-0.0075	0.0231	-0.0771	0.2158	-0.4615	0.6722	-0.4762	-0.1975	0.3618	0.3881	0.1988
	8	0.0032	-0.0102	0.0371	-0.1157	0.2887	-0.5376	0.6521	-0.3029	-0.3256	0.2374	0.4022
	9	-0.0013	0.0045	-0.0173	0.0591	-0.1659	0.3669	-0.5923	0.5862	-0.1188	-0.3952	0.0948
	10	0.0006	-0.0019	0.0079	-0.0290	0.0900	-0.2263	0.4430	-0.6169	0.4786	0.0566	-0.4040

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05	000000 02
	1	739997 00	917854 00	-130637 00	307363-01	-839852-02	245323-02	-755517-03	235933-03	-888438-04	771675-05	-198988-04
	2	139692 00	710344 00	793098 00	-252156 00	830094-01	-279798-01	955321-02	-328738-02	126158-02	-192570-03	329788-03
	3	-406129-05	219022 00	793412 00	617045 00	-335481 00	145397 00	-589129-01	226506-01	-101216-01	114895-02	-327696-02
	4	-292536-02	300565-01	334958 00	844001 00	411502 00	-370568 00	206233 00	-959239-01	524127-01	-337940-02	212513-01
	5	-494790-04	-295032-04	771896-01	461084 00	841030 00	197333 00	-357676 00	239486 00	-186807 00	-774852-02	-102267 00
	6	324148-04	-547347-03	879571-02	145121 00	580653 00	780392 00	484613-02	-241127 00	454686 00	128001 00	369435 00
	7	101640-03	950411-04	104139-03	281219-01	232728 00	677193 00	638311 00	-339722 00	-738256 00	-661922 00	-993187 00
	8	-383284-03	-390033-03	-563085-03	229701-02	599886-01	337161 00	803626 00	889635 00	924290 00	200123 01	190539 01
	9	316152-03	379189-03	516118-03	692228-03	110200-01	102702 00	337275 00	136934 00	-162496 01	-358559 01	-235955 01
	10	-412860-03	-423712-03	-461452-03	-659768-03	180893-03	313291-01	280467 00	117027 01	261026 01	302310 01	143543 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3800$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.7600	0.9705	0.1520	0.0128	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.4332	-0.7278	0.8143	0.3042	0.0550	0.0050	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.2195	0.4392	-0.7657	0.6164	0.4202	0.1219	0.0205	0.0018	0.0000	-0.0000	0.0000
	4	0.1043	-0.2372	0.5241	-0.7676	0.3900	0.4842	0.2027	0.0498	0.0077	0.0007	0.0000
	5	-0.0475	0.1198	-0.3109	0.6078	-0.7122	0.1582	0.4894	0.2837	0.0935	0.0203	0.0029
	6	0.0211	-0.0578	0.1696	-0.3996	0.6643	-0.6006	-0.0552	0.4374	0.3509	0.1488	0.0419
	7	-0.0091	0.0271	-0.0873	0.2363	-0.4875	0.6797	-0.4442	-0.2291	0.3373	0.3922	0.2099
	8	0.0039	-0.0123	0.0432	-0.1302	0.3138	-0.5617	0.6471	-0.2606	-0.3481	0.2040	0.3989
	9	-0.0016	0.0055	-0.0207	0.0683	-0.1854	0.3950	-0.6107	0.5665	-0.0707	-0.4038	0.0559
	10	0.0007	-0.0024	0.0097	-0.0344	0.1033	-0.2507	0.4717	-0.6253	0.4440	0.1044	-0.3957

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05	000000 02
	1	759997 00	913354 00	-133191 00	321607-01	-902545-02	270709-02	-854856-03	272929-03	-106894-03	817792-05	-258567-04
	2	147515 00	727831 00	782253 00	-255458 00	863984-01	-299002-01	104828-01	-368668-02	149031-02	-186359-03	424682-03
	3	-443520-05	231021 00	809537 00	598210 00	-336480 00	150104 00	-625572-01	245912-01	-116658-01	906038-03	-409304-02
	4	-326701-02	326344-01	352294 00	855307 00	385117 00	-366263 00	210841 00	-100080 00	589160-01	-903390-03	257941-01
	5	-500996-04	-279629-04	836224-01	482861 00	843746 00	165728 00	-346651 00	236842 00	-205924 00	-231874-01	-120595 00
	6	334767-04	-633656-03	980643-02	156693 00	604391 00	771670 00	-250070-01	-204846 00	497748 00	192486 00	423286 00
	7	134429-03	128115-03	141353-03	313180-01	250254 00	698786 00	608472 00	-411747 00	-830774 00	-845829 00	-110568 01
	8	-445347-03	-453095-03	-662160-03	261461-02	664672-01	361294 00	835614 00	939854 00	113165 01	234377 01	206108 01
	9	378259-03	446485-03	597207-03	801107-03	126083-01	112419 00	341955 00	280520-01	-195891 01	-394861 01	-248000 01
	10	-465001-03	-473283-03	-511859-03	-734304-03	264267-03	362486-01	316778 00	128973 01	280545 01	316757 01	146594 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.3900$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.7800	0.9689	0.1560	0.0135	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.4563	-0.7452	0.8044	0.3109	0.0580	0.0054	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.2373	0.4613	-0.7778	0.5972	0.4265	0.1279	0.0221	0.0020	0.0000	-0.0000	0.0000
	4	0.1157	-0.2557	0.5467	-0.7714	0.3622	0.4863	0.2113	0.0536	0.0085	0.0007	0.0000
	5	-0.0541	0.1325	-0.3330	0.6287	-0.7043	0.1247	0.4837	0.2932	0.1000	0.0224	0.0033
	6	0.0247	-0.0656	0.1864	-0.4247	0.6794	-0.5795	-0.0896	0.4218	0.3587	0.1580	0.0460
	7	-0.0109	0.0315	-0.0985	0.2580	-0.5134	0.6849	-0.4105	-0.2587	0.3114	0.3950	0.2210
	8	0.0048	-0.0147	0.0500	-0.1460	0.3397	-0.5848	0.6390	-0.2172	-0.3672	0.1697	0.3937
	9	-0.0021	0.0068	-0.0246	0.0786	-0.2063	0.4236	-0.6267	0.5431	-0.0229	-0.4080	0.0172
	10	0.0009	-0.0030	0.0119	-0.0407	0.1180	-0.2765	0.4999	-0.6301	0.4059	0.1500	-0.3827

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	-000000 05
	1	779997 00	908734 00	-135666 00	335969-01	-967287-02	297872-02	-965268-03	315202-03	-129322-03	771909-05	-340466-04
	2	155567 00	745176 00	771172 00	-258507 00	897375-01	-318754-01	114756-01	-412126-02	176447-02	-162513-03	547306-03
	3	-481747-05	243340 00	825236 00	579097 00	-336936 00	154617 00	-662413-01	265632-01	-134521-01	488670-03	-509205-02
	4	-363938-02	353622-01	369975 00	865733 00	358609 00	-361102 00	215033 00	-103823 00	664111-01	266746-02	312162-01
	5	-497522-04	-253524-04	904045-01	504845 00	845092 00	134482 00	-334859 00	231919 00	-228257 00	-433575-01	-141861 00
	6	333895-04	-732142-03	109061-01	168839 00	627971 00	761238 00	-528298-01	-163334 00	550118 00	271209 00	484080 00
	7	174463-03	168617-03	190990-03	348010-01	268485 00	719281 00	574563 00	-491387 00	-946149 00	-105877 01	-122937 01
	8	-518568-03	-526999-03	-775541-03	298442-02	735206-01	386532 00	869561 00	100463 01	137807 01	272334 01	222796 01
	9	451376-03	524513-03	690775-03	914013-03	142664-01	122239 00	342427 00	-101152 00	-232826 01	-433654 01	-260628 01
	10	-523638-03	-528556-03	-567505-03	-804408-03	454519-03	420478-01	357163 00	141908 01	301261 01	331851 01	149774 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4000$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.8000	0.9672	0.1600	0.0142	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.4800	-0.7624	0.7943	0.3176	0.0610	0.0059	0.0000	-0.0001	0.0000	0.0000	0.0000
	3	-0.2560	0.4839	-0.7893	0.5775	0.4325	0.1339	0.0239	0.0023	0.0000	-0.0000	0.0000
	4	0.1280	-0.2749	0.5694	-0.7739	0.3341	0.4876	0.2199	0.0576	0.0094	0.0008	0.0000
	5	-0.0614	0.1461	-0.3558	0.6489	-0.6947	0.0915	0.4769	0.3025	0.1068	0.0247	0.0038
	6	0.0287	-0.0741	0.2043	-0.4503	0.6930	-0.5565	-0.1228	0.4047	0.3657	0.1674	0.0503
	7	-0.0130	0.0365	-0.1107	0.2807	-0.5390	0.6877	-0.3751	-0.2860	0.2843	0.3964	0.2318
	8	0.0059	-0.0174	0.0577	-0.1630	0.3665	-0.6066	0.6277	-0.1732	-0.3828	0.1349	0.3865
	9	-0.0026	0.0082	-0.0290	0.0901	-0.2285	0.4523	-0.6402	0.5164	0.0241	-0.4078	-0.0208
	10	0.0012	-0.0037	0.0144	-0.0478	0.1342	-0.3036	0.5274	-0.6312	0.3647	0.1928	-0.3650

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	-000000 05
	1	799997 00	903993 00	-138061 00	350410-01	-103435-01	326742-02	-108631-02	362396-03	-155697-03	648459-05	-439219-04
	2	163848 00	762375 00	759860 00	-261287 00	930393-01	-338934-01	125259-01	-458677-02	208320-02	-119304-03	695116-03
	3	-520224-05	255979 00	840498 00	559727 00	-336851 00	158907 00	-699657-01	285516-01	-155148-01	-142181-03	-628997-02
	4	-404457-02	382449-01	387997 00	875289 00	332070 00	-355075 00	218792 00	-107016 00	751000-01	761106-02	376459-01
	5	-481092-04	-213558-04	975439-01	527002 00	845063 00	103697 00	-322403 00	224283 00	-254663 00	-693358-01	-166564 00
	6	316375-04	-844467-03	120914-01	181521 00	651255 00	749120 00	-782655-01	-115704 00	614025 00	366553 00	552696 00
	7	223331-03	218123-03	247740-03	385529-01	287394 00	738678 00	536349 00	-580647 00	-108875 01	-130463 01	-136559 01
	8	-605153-03	-613740-03	-909584-03	337069-02	810028-01	412535 00	905789 00	108710 01	166898 01	314397 01	240754 01
	9	537488-03	615027-03	797449-03	105331-02	162114-01	132693 00	338404 00	-253468 00	-273690 01	-475209 01	-273982 01
	10	-589686-03	-590302-03	-629478-03	-894380-03	582367-03	483354-01	401593 00	155937 01	323316 01	347702 01	153170 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4100$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.8200	0.9655	0.1640	0.0150	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.5043	-0.7794	0.7839	0.3242	0.0641	0.0064	0.0000	-0.0001	0.0000	0.0000	0.0000
	3	-0.2757	0.5068	-0.8002	0.5575	0.4381	0.1400	0.0257	0.0025	0.0000	-0.0000	0.0000
	4	0.1413	-0.2951	0.5920	-0.7752	0.3059	0.4881	0.2284	0.0617	0.0104	0.0010	0.0000
	5	-0.0695	0.1607	-0.3793	0.6684	-0.6835	0.0587	0.4689	0.3114	0.1138	0.0271	0.0043
	6	0.0333	-0.0836	0.2232	-0.4761	0.7051	-0.5317	-0.1547	0.3864	0.3718	0.1766	0.0550
	7	-0.0155	0.0422	-0.1241	0.3045	-0.5642	0.6880	-0.3383	-0.3108	0.2561	0.3963	0.2425
	8	0.0072	-0.0207	0.0662	-0.1814	0.3941	-0.6269	0.6133	-0.1286	-0.3950	0.0996	0.3773
	9	-0.0033	0.0100	-0.0342	0.1027	-0.2522	0.4811	-0.6511	0.4862	0.0699	-0.4034	-0.0579
	10	0.0015	-0.0047	0.0173	-0.0559	0.1519	-0.3318	0.5537	-0.6283	0.3208	0.2325	-0.3430
U^{-1}	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	-000000 05
	1	819997 00	899133 00	-140373 00	364915-01	-110370-01	357443-02	-121832-02	414413-03	-186907-03	446235-05	-563614-04
	2	172361 00	779419 00	748315 00	-263802 00	962946-01	-359577-01	136320-01	-507868-02	245397-02	-566647-04	875733-03
	3	-557844-05	268944 00	855329 00	540132 00	-336212 00	162978 00	-737154-01	305189-01	-178850-01	-988565-03	-771294-02
	4	-448477-02	412965-01	406376 00	883965 00	305507 00	-348210 00	222132 00	-109509 00	850944-01	139808-01	451154-01
	5	-448431-04	-103008-04	105068 00	549313 00	843633 00	733699-01	-309532 00	213532 00	-285716 00	-101663 00	-194788 00
	6	275463-04	-970628-03	133767-01	194766 00	674204 00	735357 00	-100951 00	-608120-01	692014 00	481119 00	630046 00
	7	282898-03	278883-03	318337-03	426070-01	306979 00	756770 00	493279 00	-681751 00	-126337 01	-158756 01	-151553 01
	8	-707299-03	-715164-03	-106500-02	379238-02	890128-01	439554 00	945303 00	119034 01	200832 01	360714 01	259936 01
	9	638533-03	719686-03	919498-03	121195-02	183638-01	143420 00	328696 00	-431324 00	-318734 01	-519601 01	-288013 01
	10	-663734-03	-658907-03	-697866-03	-993948-03	737866-03	554689-01	450792 00	171113 01	346635 01	364104 01	156629 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4200$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.8400	0.9638	0.1680	0.0158	0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.5292	-0.7963	0.7732	0.3307	0.0672	0.0068	0.0000	-0.0001	0.0000	0.0000	0.0000
	3	-0.2963	0.5302	-0.8104	0.5372	0.4433	0.1463	0.0276	0.0028	0.0000	-0.0000	0.0000
	4	0.1556	-0.3161	0.6146	-0.7753	0.2775	0.4878	0.2369	0.0660	0.0115	0.0011	0.0000
	5	-0.0784	0.1763	-0.4034	0.6871	-0.6707	0.0263	0.4597	0.3199	0.1209	0.0297	0.0048
	6	0.0384	-0.0939	0.2433	-0.5022	0.7155	-0.5052	-0.1853	0.3668	0.3771	0.1858	0.0599
	7	-0.0184	0.0485	-0.1385	0.3293	-0.5888	0.6858	-0.3003	-0.3332	0.2269	0.3948	0.2530
	8	0.0087	-0.0244	0.0757	-0.2010	0.4222	0.0004	0.5957	0.0011	-0.4035	-0.0013	0.3662
	9	-0.0040	0.0121	-0.0401	0.1167	-0.2772	0.5097	-0.6589	0.4529	0.1142	-0.3948	-0.0936
	10	0.0019	-0.0058	0.0208	-0.0651	0.1712	-0.3611	0.5787	-0.6214	0.2744	0.2685	-0.3170
U^{-1}	0	100000 01	000000 02	000000 02	000000 02	-000000 05	000000 02	000000 02	000000 02	000000 03	000000 03	-000000 05
	1	839997 00	894153 00	-142584 00	380366-01	-116115-01	391993-02	-140484-02	496914-03	-246238-03	301933-04	-940985-04
	2	181108 00	796311 00	736325 00	-267222 00	976791-01	-383237-01	153481-01	-592246-02	317804-02	-338570-03	138435-02
	3	-466693-05	282226 00	871341 00	528793 00	-322064 00	168699 00	-814432-01	347697-01	-227279-01	528033-03	-114826-01
	4	-496556-02	445001-01	417273 00	851923 00	218262 00	-349458 00	243629 00	-122069 00	106609 00	974879-02	636017-01
	5	-399430-04	531353-05	138887 00	704459 00	104340 01	734025-01	-358311 00	235547 00	-355608 00	-100188 00	-259722 00
	6	534958-04	-109957-02	-485050-01	-115173 00	202667 00	647326 00	306064-01	-862788-01	867379 00	516152 00	796340 00
	7	241104-03	265545-03	118971 00	653728 00	125326 01	909673 00	161701 00	-630625 00	-162561 01	-172083 01	-182866 01
	8	-640554-03	-691272-03	-194298 00	-983650 00	-141018 01	245755 00	144979 01	104647 01	264680 01	380625 01	304615 01
	9	560350-03	718414-03	297051 00	151615 01	233258 01	494533 00	-394322 00	-221247 00	-405835 01	-519355 01	-339790 01
	10	-467774-03	-525991-03	-299188 00	-152818 01	-232973 01	-279442 00	121750 01	145540 01	409137 01	333067 01	197514 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4300$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.8600	0.9620	0.1720	0.0166	0.0000	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.5547	-0.8130	0.7623	0.3370	0.0705	0.0074	0.0000	-0.0001	0.0000	0.0000	0.0000
3	-0.3180	0.5539	-0.8200	0.5165	0.4481	0.1526	0.0297	0.0030	0.0000	-0.0000	0.0000
4	0.1710	-0.3380	0.6370	-0.7742	0.2490	0.4867	0.2453	0.0705	0.0126	0.0012	0.0000
5	-0.0882	0.1930	-0.4283	0.7050	-0.6562	-0.0056	0.4494	0.3280	0.1282	0.0325	0.0054
6	0.0443	-0.1052	0.2644	-0.5284	0.7241	-0.4770	-0.2144	0.3460	0.3814	0.1961	0.0650
7	-0.0217	0.0556	-0.1542	0.3551	-0.6127	0.6810	-0.2611	-0.3529	0.1969	0.3917	0.2631
8	0.0105	-0.0286	0.0863	-0.2221	0.4509	-0.6623	0.5749	-0.0395	-0.4085	0.0293	0.3531
9	-0.0050	0.0145	-0.0468	0.1320	-0.3035	0.5379	-0.6637	0.4166	0.1565	-0.3821	-0.1278
10	0.0024	-0.0071	0.0248	-0.0754	0.1921	-0.3913	0.6019	-0.6102	0.2261	0.3005	-0.2873

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	-000000 05	-000000 05	000000 02
1	859997 00	889053 00	-144744 00	393989-01	-124876-01	424274-02	-151741-02	532708-03	-274403-03	-155321-04	-965594-04
2	190089 00	813041 00	724583 00	-267989 00	102618 00	-401919-01	160095-01	-611949-02	347122-02	292276-03	142508-02
3	-373691-05	295826 00	883568 00	500293 00	-333252 00	170356 00	-812414-01	341760-01	-242640-01	-435099-02	-117724-01
4	-548783-02	478778-01	444026 00	898539 00	252551 00	-332072 00	227526 00	-111397 00	111772 00	348873-01	651481-01
5	-182760-04	230344-04	121225 00	594230 00	836642 00	145038-01	-283083 00	179796 00	-369036 00	-194662 00	-266136 00
6	138280-04	-127712-02	162352-01	222945 00	718883 00	703225 00	-136171 00	765795-01	903543 00	781484 00	815691 00
7	378519-03	374101-03	515904-03	516863-01	348140 00	788414 00	390040 00	-930694 00	-173067 01	-228237 01	-186151 01
8	-869180-03	-868262-03	-147433-02	474888-02	106641 00	496481 00	103711 01	147588 01	286515 01	469107 01	303114 01
9	835059-03	917532-03	122968-02	159593-02	233784-01	165479 00	288397 00	-875983 00	-423146 01	-618238 01	-318559 01
10	-698064-03	-673329-03	-882971-03	-122230-02	109805-02	722932-01	564457 00	205359 01	398152 01	399930 01	164430 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4400$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.8800	0.9601	0.1760	0.0174	0.0000	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.5808	-0.8296	0.7511	0.3433	0.0738	0.0079	0.0000	-0.0001	0.0000	0.0000	0.0000
3	-0.3407	0.5780	-0.8288	0.4955	0.4524	0.1589	0.0318	0.0034	0.0000	-0.0000	0.0000
4	0.1874	-0.3608	0.6594	-0.7719	0.2204	0.4849	0.2537	0.0751	0.0138	0.0014	0.0000
5	-0.0989	0.2107	-0.4537	0.7220	-0.6400	-0.0369	0.4380	0.3356	0.1357	0.0354	0.0061
6	0.0508	-0.1176	0.2867	-0.5547	0.7310	-0.4472	-0.2419	0.3240	0.3847	0.2057	0.0704
7	-0.0255	0.0635	-0.1710	0.3818	-0.6358	0.6735	-0.2211	-0.3699	0.1663	0.3871	0.2728
8	0.0127	-0.0335	0.0980	-0.2445	0.4799	-0.6770	0.5511	0.0045	-0.4098	-0.0054	0.3382
9	-0.0062	0.0173	-0.0543	0.1488	-0.3310	0.5655	-0.6651	0.3776	0.1964	-0.3656	-0.1600
10	0.0030	-0.0087	0.0295	-0.0870	0.2146	-0.4223	0.6231	-0.5948	0.1762	0.3282	-0.2543

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	000000 03	000000 02
1	879996 00	883833 00	-146797 00	408517-01	-132436-01	460457-02	-168613-02	599018-03	-332263-03	-331947-04	-124655-03
2	199309 00	829607 00	712398 00	-269660 00	105671 00	-423517-01	172853-01	-665794-02	413383-02	580295-03	179717-02
3	-357695-05	309746 00	896971 00	480098 00	-330942 00	173624 00	-850245-01	357596-01	-283844-01	-692889-02	-144350-01
4	-604845-02	514343-01	463301 00	904433 00	226246 00	-322811 00	229688 00	-110280 00	129088 00	499738-01	778905-01
5	-719151-05	370157-04	129892 00	616761 00	831049 00	-139429-01	-270081 00	155219 00	-424049 00	-258017 00	-310133 00
6	299578-05	-146026-02	178357-01	237950 00	740571 00	685034 00	-147570 00	162875 00	104513 01	975051 00	926576 00
7	470071-03	468194-03	612182-03	566097-01	369499 00	801658 00	328387 00	-108570 01	-203746 01	-270628 01	-206125 01
8	-101844-02	-101478-02	-167442-02	550897-02	116609 00	526600 00	109182 01	166729 01	339509 01	531855 01	327176 01
9	973562-03	105660-02	136801-02	159720-02	259666-01	176604 00	255501 00	-114975 01	-483365 01	-672983 01	-335175 01
10	-780373-03	-749633-03	-956027-03	-124179-02	147499-02	822408-01	630007 00	224620 01	426408 01	419211 01	168642 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4500$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.9000	0.9582	0.1800	0.0182	0.0000	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.6075	-0.8460	0.7396	0.3494	0.0772	0.0085	0.0000	-0.0001	0.0000	0.0000	0.0000
	3	-0.3645	0.6025	-0.8370	0.4742	0.4564	0.1654	0.0340	0.0037	0.0000	-0.0000	0.0000
	4	0.2051	-0.3845	0.6815	-0.7683	0.1919	0.4822	0.2619	0.0799	0.0151	0.0016	0.0000
	5	-0.1107	0.2296	-0.4797	0.7380	-0.6223	-0.0675	0.4255	0.3427	0.1434	0.0386	0.0068
	6	0.0582	-0.1310	0.3101	-0.5809	0.7359	-0.4160	-0.2677	0.3010	0.3869	0.2152	0.0761
	7	-0.0298	0.0724	-0.1892	0.4093	-0.6578	0.6633	-0.1804	-0.3842	0.1351	0.3809	0.2820
	8	0.0151	-0.0390	0.1108	-0.2682	0.5091	-0.6895	0.5243	0.0477	-0.4077	-0.0395	0.3214
	9	-0.0075	0.0206	-0.0629	0.1671	-0.3597	0.5922	-0.6630	0.3361	0.2337	-0.3453	-0.1901
	10	0.0038	-0.0107	0.0349	-0.1000	0.2388	-0.4537	0.6419	-0.5751	0.1253	0.3512	-0.2185

U^{-1} 0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	000000 03	-000000 05
1	899996 00	878493 00	-148760 00	423006-01	-140189-01	498502-02	-186861-02	669411-03	-403413-03	-598150-04	-160534-03
2	208767 00	846003 00	700008 00	-271044 00	108641 00	-445321-01	186208-01	-719285-02	494129-02	990761-03	226093-02
3	-321733-05	323987 00	909882 00	459749 00	-328080 00	176584 00	-888238-01	370593-01	-333780-01	-104010-01	-176711-01
4	-665448-02	551730-01	482860 00	909375 00	200110 00	-312776 00	231585 00	-107266 00	150094 00	693625-01	930039-01
5	796280-05	551686-04	138969 00	639326 00	824104 00	-416852-01	-257725 00	123978 00	-491113 00	-336036 00	-361066 00
6	-136924-04	-166895-02	195368-01	253474 00	761620 00	665634 00	-153695 00	264299 00	121770 01	120436 01	105194 01
7	581236-03	582374-03	758406-03	620247-01	391623 00	812805 00	258312 00	-126719 01	-240467 01	-319097 01	-228207 01
8	-119439-02	-118623-02	-195377-02	611912-02	126931 00	558122 00	115486 01	189906 01	400591 01	601352 01	353256 01
9	113432-02	121673-02	157551-02	182931-02	290698-01	187343 00	211515 00	-146384 01	-549799 01	-732043 01	-352968 01
10	-872902-03	-835299-03	-106206-02	-137879-02	178388-02	935760-01	702629 00	245534 01	456685 01	439773 01	173250 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4600$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.9200	0.9563	0.1840	0.0191	0.0000	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.6348	-0.8622	0.7279	0.3555	0.0806	0.0091	0.0000	-0.0001	0.0000	0.0000	0.0000
	3	-0.3893	0.6274	-0.8444	0.4526	0.4600	0.1719	0.0363	0.0040	0.0000	-0.0000	0.0000
	4	0.2239	-0.4092	0.7033	-0.7634	0.1633	0.4787	0.2700	0.0849	0.0165	0.0017	0.0000
	5	-0.1236	0.2497	-0.5063	0.7529	-0.6031	-0.0974	0.4119	0.3493	0.1512	0.0419	0.0076
	6	0.0664	-0.1456	0.3346	-0.6070	0.7388	-0.3835	-0.2918	0.2770	0.3881	0.2247	0.0820
	7	-0.0349	0.0822	-0.2087	0.4377	-0.6786	0.6504	-0.1393	-0.3955	0.1037	0.3732	0.2907
	8	0.0181	-0.0452	0.1250	-0.2934	0.5384	-0.6994	0.4947	0.0899	-0.4018	-0.0727	0.3028
	9	-0.0092	0.0245	-0.0725	0.1869	-0.3896	0.6177	-0.6573	0.2923	0.2678	-0.3215	-0.2176
	10	0.0047	-0.0129	0.0411	-0.1143	0.2647	-0.4854	0.6580	-0.5512	0.0738	0.3693	-0.1803

U^{-1} 0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	000000 03	-000000 05
1	919996 00	873032 00	-150631 00	437431-01	-148125-01	538415-02	-206555-02	743127-03	-491108-03	-982981-04	-205965-03
2	218472 00	862229 00	687418 00	-272139 00	111517 00	-467274-01	200169-01	-770981-02	592791-02	155773-02	283438-02
3	-136773-04	338534 00	922291 00	439265 00	-324669 00	179221 00	-926399-01	379698-01	-394447-01	-149767-01	-215758-01
4	-730945-02	591068-01	502690 00	913357 00	174189 00	-301998 00	233281 00	-101915 00	175602 00	938896-01	110810 00
5	703296-04	112094-03	148459 00	661880 00	815802 00	-686392-01	-246336 00	848159-01	-572661 00	-431031 00	-419670 00
6	264828-04	-187445-02	213478-01	269568 00	782017 00	645055 00	-153896 00	383592 00	142660 01	147380 01	119288 01
7	616312-03	737170-03	931336-03	678356-01	414374 00	821845 00	179004 00	-147984 01	-284040 01	-374175 01	-252473 01
8	-122254-02	-138032-02	-227845-02	677155-02	137817 00	590813 00	122715 01	217656 01	470486 01	677888 01	381293 01
9	117678-02	140118-02	181219-02	209627-02	325338-01	198029 00	155964 00	-182118 01	-622665 01	-795236 01	-371697 01
10	-763516-03	-930413-03	-117921-02	-153350-02	208035-02	105990 00	781983 00	268095 01	488831 01	461248 01	177997 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4700$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.9400	0.9543	0.1880	0.0200	0.0000	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.6627	-0.8783	0.7160	0.3613	0.0842	0.0098	0.0000	-0.0001	0.0000	0.0000	0.0000
3	-0.4153	0.6525	-0.8511	0.4307	0.4631	0.1784	0.0387	0.0044	0.0000	-0.0001	0.0000
4	0.2440	-0.4347	0.7249	-0.7573	0.1348	0.4744	0.2780	0.0900	0.0180	0.0019	0.0000
5	-0.1376	0.2709	-0.5334	0.7667	-0.5823	-0.1264	0.3973	0.3554	0.1591	0.0454	0.0084
6	0.0755	-0.1614	0.3602	-0.6329	0.7396	-0.3497	-0.3139	0.2522	0.3882	0.2341	0.0882
7	-0.0405	0.0931	-0.2296	0.4668	-0.6981	0.6348	-0.0979	-0.4040	0.0721	0.3638	0.2988
8	0.0214	-0.0523	0.1405	-0.3199	0.5675	-0.7068	0.4622	0.1306	-0.3925	-0.1047	0.2826
9	-0.0112	0.0289	-0.0833	0.2083	-0.4204	0.6418	-0.6479	0.2467	0.2987	-0.2945	-0.2424
10	0.0058	-0.0156	0.0483	-0.1303	0.2922	-0.5173	0.6712	-0.5230	0.0223	0.3823	-0.1402

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	000000 03	000000 03
1	939995 00	867452 00	-152407 00	451764-01	-156231-01	580189-02	-227782-02	818957-03	-599612-03	-152764-03	-263390-03
2	228417 00	878270 00	674636 00	-272940 00	114291 00	-489302-01	214760-01	-818864-02	713934-02	232936-02	354291-02
3	-131831-04	353413 00	934178 00	418666 00	-320712 00	181514 00	-964868-01	383492-01	-468561-01	-209527-01	-262877-01
4	-801602-02	632322-01	522796 00	916375 00	148528 00	-290489 00	234904 00	-936286-01	206732 00	124760 00	131811 00
5	949458-04	136771-03	158368 00	684376 00	806159 00	-947976-01	-236466 00	359621-01	-672128 00	-546454 00	-487235 00
6	823765-05	-214752-02	232732-01	286224 00	801709 00	623506 00	-146957 00	524760 00	167958 01	179044 01	135179 01
7	755359-03	907133-03	114865-02	740648-01	437710 00	828425 00	885609-01	-173065 01	-335702 01	-436881 01	-279251 01
8	-143010-02	-158092-02	-256948-02	750525-02	149284 00	625019 00	131124 01	250826 01	550498 01	762463 01	411615 01
9	135166-02	161372-02	208942-02	240266-02	363311-01	208228 00	864233-01	-222797 01	-702824 01	-863253 01	-391627 01
10	-849930-03	-101564-02	-125333-02	-168064-02	239240-02	112848 00	869334 00	292575 01	523250 01	484039 01	183070 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4800$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.9600	0.9523	0.1920	0.0209	0.0000	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.6912	-0.8941	0.7038	0.3671	0.0878	0.0105	0.0000	-0.0001	0.0000	0.0000	0.0000
3	-0.4424	0.6781	-0.8571	0.4086	0.4657	0.1850	0.0413	0.0048	0.0000	-0.0001	0.0000
4	0.2655	-0.4611	0.7461	-0.7498	0.1064	0.4693	0.2857	0.0953	0.0196	0.0022	0.0000
5	-0.1529	0.2934	-0.5609	0.7792	-0.5600	-0.1546	0.3817	0.3608	0.1671	0.0490	0.0093
6	0.0856	-0.1784	0.3869	-0.6584	0.7383	-0.3148	-0.3341	0.2265	0.3871	0.2433	0.0947
7	-0.0470	0.1051	-0.2519	0.4965	-0.7160	0.6164	-0.0566	-0.4094	0.0404	0.3529	0.3062
8	0.0254	-0.0604	0.1574	-0.3478	0.5964	-0.7113	0.4272	0.1696	-0.3798	-0.1354	0.2607
9	-0.0135	0.0341	-0.0953	0.2314	-0.4520	0.6642	-0.6347	0.1995	0.3258	-0.2645	-0.2643
10	0.0072	-0.0188	0.0564	-0.1479	0.3213	-0.5489	0.6810	-0.4907	-0.0287	0.3900	-0.0988

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	000000 03	000000 03
1	959995 00	861752 00	-154086 00	465979-01	-164504-01	623767-02	-250645-02	893997-03	-737020-03	-231171-03	-337349-03
2	238608 00	894126 00	661665 00	-273445 00	116959 00	-511305-01	230028-01	-859334-02	865486-02	338684-02	442851-02
3	-122179-04	368614 00	945544 00	397975 00	-316233 00	183438 00	-100393 00	379033-01	-560282-01	-287617-01	-320049-01
4	-877763-02	675519-01	543134 00	918407 00	123186 00	-278266 00	236637 00	-816098-01	244075 00	163491 00	156608 00
5	126365-03	175065-03	168733 00	706810 00	795211 00	-120115 00	-228757 00	-246979-01	-793522 00	-686128 00	-565078 00
6	-194244-04	-245554-02	253315-01	303458 00	820652 00	601194 00	-131648 00	692149 00	198469 01	216137 01	153092 01
7	922570-03	110625-02	139672-02	807351-01	461637 00	832306 00	-147257-01	-202630 01	-396591 01	-508055 01	-308764 01
8	-167237-02	-184758-02	-299512-02	824847-02	161400 00	660851 00	140927 01	290152 01	641675 01	855729 01	444367 01
9	155203-02	185279-02	239502-02	274610-02	404969-01	217757 00	112453-02	-260685 01	-790803 01	-936359 01	-412798 01
10	-946266-03	-113030-02	-138924-02	-186974-02	275775-02	135222 00	965040 00	319004 01	559887 01	508029 01	188410 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.4900$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.9800	0.9502	0.1960	0.0218	0.0000	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.7203	-0.9098	0.6913	0.3727	0.0915	0.0112	0.0000	-0.0002	0.0000	0.0000	0.0000
	3	-0.4706	0.7039	-0.8622	0.3862	0.4680	0.1917	0.0439	0.0052	0.0000	-0.0001	0.0000
	4	0.2883	-0.4885	0.7670	-0.7411	0.0781	0.4633	0.2933	0.1008	0.0213	0.0024	0.0000
	5	-0.1695	0.3172	-0.5887	0.7904	-0.5363	-0.1818	0.3650	0.3656	0.1752	0.0529	0.0104
	6	0.0969	-0.1969	0.4147	-0.6833	0.7348	-0.2789	-0.3522	0.2001	0.3849	0.2523	0.1014
	7	-0.0543	0.1184	-0.2757	0.5267	-0.7322	0.5953	-0.0154	-0.4119	0.0090	0.3404	0.3128
	8	0.0299	-0.0694	0.1759	-0.3770	0.6247	-0.7129	0.3897	0.2065	-0.3638	-0.1644	0.2373
	9	-0.0163	0.0400	-0.1087	0.2562	-0.4844	0.6846	-0.6176	0.1512	0.3490	-0.2320	-0.2829
	10	0.0088	-0.0225	0.0657	-0.1672	0.3519	-0.5801	0.6873	-0.4545	-0.0786	0.3923	-0.0566

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 03	000000 03	000000 03
	1	979995 00	855932 00	-155666 00	480052-01	-172917-01	669217-02	-275282-02	966363-03	-908028-03	-337748-03	-429464-03
	2	249048 00	909792 00	648512 00	-273654 00	119503 00	-533268-01	246044-01	-889357-02	105315-01	478687-02	551273-02
	3	-106278-04	384137 00	956373 00	377220 00	-311210 00	184989 00	-104398 00	366584-01	-673410-01	-387916-01	-388754-01
	4	-959805-02	720771-01	563704 00	919447 00	981946-01	-265350 00	238697 00	-649514-01	291998 00	211745 00	185830 00
	5	166322-03	223611-03	179549 00	729117 00	782922 00	-144638 00	-223957 00	-997873-01	-941818 00	-854717 00	-654862 00
	6	-593839-04	-280780-02	275137-01	321239 00	838720 00	578292 00	-106374 00	891240 00	235255 01	259508 01	173282 01
	7	112348-02	134528-02	169377-02	878646-01	486097 00	833137 00	-133243 00	-237581 01	-468226 01	-588854 01	-341343 01
	8	-195526-02	-215898-02	-348913-02	903161-02	174133 00	698555 00	152418 01	336636 01	745482 01	958686 01	479811 01
	9	178166-02	212648-02	274412-02	313575-02	450539-01	226347 00	-102322 00	-321033 01	-887437 01	-101508 02	-435344 01
	10	-105383-02	-125823-02	-154021-02	-208015-02	316195-02	152292 00	107004 01	347608 01	599029 01	533418 01	194075 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.5000$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.0000	0.9481	0.2000	0.0228	0.0000	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.7500	-0.9253	0.6786	0.3782	0.0953	0.0119	0.0000	-0.0002	0.0000	0.0000	0.0000
	3	-0.5000	0.7300	-0.8666	0.3635	0.4697	0.1984	0.0466	0.0057	0.0000	-0.0001	0.0000
	4	0.3125	-0.5167	0.7873	-0.7312	0.0500	0.4566	0.3007	0.1064	0.0230	0.0027	0.0000
	5	-0.1875	0.3423	-0.6170	0.8003	-0.5112	-0.2079	0.3474	0.3698	0.1834	0.0570	0.0115
	6	0.1094	-0.2167	0.4435	-0.7077	0.7290	-0.2422	-0.3681	0.1731	0.3814	0.2610	0.1083
	7	-0.0625	0.1329	-0.3009	0.5574	-0.7466	0.5716	0.0253	-0.4114	-0.0220	0.3264	0.3187
	8	0.0352	-0.0795	0.1959	-0.4075	0.6524	-0.7114	0.3500	0.4645	-0.3446	-0.1917	0.2126
	9	-0.0195	0.0467	-0.1235	0.2827	-0.5173	0.7029	-0.5966	0.1022	0.3680	-0.1972	-0.2981
	10	0.0108	-0.0269	0.0762	-0.1884	0.3840	-0.6105	0.6897	-0.4146	-0.1268	0.3892	-0.0142

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 00	000000-01	000000-01	000000-01	000000-01	000000-01	000000 00	-000000 01	-000000 01	000000 00
	1	999993 00	849990 00	-157148 00	492931-01	-186958-01	627125-02	-272808-02	403134-02	481572-02	683522-02	351250-02
	2	259757 00	925282 00	635206 00	-272391 00	128218 00	-452696-01	229631-01	-434148-01	-551904-01	-772345-01	-396578-01
	3	-114780-03	399855 00	966512 00	349010 00	-345465 00	121449 00	-875386-01	251289 00	348725 00	478339 00	246706 00
	4	-100231-01	773511-01	585109 00	951356 00	244742 00	264113-01	151006 00	-976536 00	-149948 01	-200723 01	-104330 01
	5	-125316-02	-143989-02	188843 00	649022 00	220252 00	-106083 01	669117-01	280444 01	481109 01	625417 01	329582 01
	6	354346-02	108174-02	347683-01	594050 00	222242 01	277620 01	-790790 00	-632989 01	-119735 02	-150954 02	-812915 01
	7	-586632-02	-685199-02	-771816-02	-407450 00	-218968 01	-355914 01	115625 01	119513 02	236638 02	291581 02	161675 02
	8	902077-02	107355-01	111627-01	796112 00	441009 01	760166 01	-570294 00	-191330 02	-369979 02	-455042 02	-259950 02
	9	-109664-01	-128039-01	-142854-01	-900986 00	-480868 01	-766353 01	233899 01	227194 02	425716 02	536994 02	312801 02
	10	721971-02	842316-02	947029-02	581050 00	313758 01	526515 01	-469620 00	-133194 02	-274596 02	-361288 02	-211386 02
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.5100$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.0200	0.9459	0.2040	0.0237	0.0000	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.7803	-0.9405	0.6656	0.3836	0.0991	0.0127	0.0000	-0.0002	0.0000	0.0000	0.0000
3	-0.5306	0.7564	-0.8702	0.3406	0.4710	0.2051	0.0495	0.0062	0.0000	-0.0001	0.0000
4	0.3383	-0.5458	0.8072	-0.7199	0.0222	0.4489	0.3079	0.1122	0.0249	0.0030	0.0000
5	-0.2070	0.3687	-0.6455	0.8086	-0.4847	-0.2328	0.3288	0.3732	0.1916	0.0613	0.0126
6	0.1232	-0.2381	0.4734	-0.7313	0.7209	-0.2048	-0.3819	0.1457	0.3767	0.2651	0.1154
7	-0.0718	0.1489	-0.3276	0.5884	-0.7589	0.5452	0.0652	-0.4080	-0.0525	0.3107	0.3236
8	0.0412	-0.0908	0.2176	-0.4391	0.6791	-0.7066	0.3083	0.2733	-0.3224	-0.2168	0.1866
9	-0.0233	0.0544	-0.1400	0.3109	-0.5506	0.7185	-0.5718	0.0528	0.3826	-0.1606	-0.3098
10	0.0132	-0.0320	0.0880	-0.2114	0.4175	-0.6399	0.6881	-0.3712	-0.1729	0.3808	0.0278

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	220308-09	715515-09	545158-09	517382-09	553642-09	-666339-10	-166929-08	-415642-08	-462184-08	-184932-08
1	101999 01	843931 00	-158523 00	507654-01	-190131-01	765102-02	-329939-02	114719-02	-124007-02	-511790-03	-622881-03
2	270685 00	940532 00	621687 00	-273170 00	124204 00	-576347-01	280241-01	-949138-02	144950-01	764354-02	791181-02
3	-576431-05	416143 00	976373 00	335591 00	-299638 00	186747 00	-112755 00	319670-01	-935038-01	-622345-01	-547826-01
4	-114299-01	817728-01	605503 00	918567 00	495512-01	-237201 00	244630 00	-174274-01	409856 00	333140 00	255783 00
5	279920-03	351450-03	202516 00	773101 00	754336 00	-191608 00	-226711 00	-302360 00	-133299 01	-128938 01	-873075 00
6	-194515-03	-365483-02	324268-01	358805 00	872376 00	532012 00	-179802-01	141256 01	332546 01	369284 01	221826 01
7	165495-02	193271-02	214990-02	102891 00	535750 00	823376 00	-426894 00	-327057 01	-648616 01	-782245 01	-416270 01
8	-266004-02	-287604-02	-426641-02	117757-01	203015 00	783193 00	181539 01	452088 01	988713 01	118857 02	556139 01
9	234900-02	275132-02	321135-02	312032-02	542816-01	238516 00	-373597 00	-445616 01	-110837 02	-118954 02	-484377 01
10	-129718-02	-152641-02	-171037-02	-211963-02	495872-02	193902 00	130922 01	409493 01	679191 01	581925 01	203708 01

$\gamma = 0.5200$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.0400	0.9436	0.2080	0.0248	0.0000	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.8112	-0.9556	0.6523	0.3888	0.1030	0.0135	0.0000	-0.0002	0.0000	0.0000	0.0000
3	-0.5624	0.7830	-0.8730	0.3175	0.4718	0.2118	0.0525	0.0067	0.0000	-0.0001	0.0000
4	0.3656	-0.5759	0.8265	-0.7073	-0.0053	0.4405	0.3147	0.1181	0.0270	0.0033	0.0000
5	-0.2281	0.3965	-0.6741	0.8155	-0.4569	-0.2566	0.3094	0.3759	0.1999	0.0658	0.0139
6	0.1384	-0.2610	0.5042	-0.7541	0.7105	-0.1669	-0.3934	0.1178	0.3708	0.2775	0.1228
7	-0.0822	0.1664	-0.3559	0.6196	-0.7691	0.5163	0.1042	-0.4015	-0.0822	0.2937	0.3276
8	0.0481	-0.1035	0.2410	-0.4719	0.7047	-0.6985	0.2648	0.3025	-0.2975	-0.2397	0.1596
9	-0.0278	0.0632	-0.1581	0.3409	-0.5840	0.7314	-0.5431	0.0035	0.3927	-0.1225	-0.3178
10	0.0160	-0.0379	0.1013	-0.2365	0.4523	-0.6678	0.6821	-0.3247	-0.2162	0.3671	0.0689

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	250388-09	617162-09	612975-09	512482-09	535874-09	289672-09	-624734-09	-139814-08	-184285-08	-823861-09
1	103999 01	837751 00	-159795 00	521127-01	-198884-01	816111-02	-361448-02	111441-02	-174868-02	-948767-03	-876433-03
2	281887 00	955593 00	608026 00	-272476 00	126328 00	-597853-01	299633-01	-855060-02	195772-01	122859-01	105309-01
3	370627-06	432630 00	985528 00	314774 00	-293049 00	187144 00	-117656 00	233573-01	-120810 00	-888504-01	-691737-01
4	-124556-01	869476-01	626679 00	916594 00	258509-01	-222487 00	250142 00	261646-01	510099 00	437043 00	308766 00
5	363492-03	449192-03	214751 00	794824 00	738296 00	-213656 00	-237552 00	-447303 00	-161328 01	-159260 01	-101547 01
6	-297421-03	-418263-02	350258-01	378274 00	887556 00	509204 00	500922-01	175152 01	395929 01	437953 01	250815 01
7	200767-02	234132-02	260581-02	111461 00	561702 00	813082 00	-610689 00	-385845 01	-765654 01	-902305 01	-461207 01
8	-313120-02	-338532-02	-499184-02	128032-01	217358 00	826576 00	200589 01	530761 01	114938 02	133675 02	605218 01
9	270033-02	315997-02	368499-02	357215-02	601697-01	242687 00	-548782 00	-521107 01	-123824 02	-129032 02	-512635 01
10	-146122-02	-171782-02	-191764-02	-238157-02	523660-02	215784 00	144966 01	448325 01	733429 01	618995 01	213272 01

$\gamma = 0.5300$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.0600	0.9413	0.2120	0.0258	0.0000	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.8427	-0.9704	0.6388	0.3939	0.1070	0.0144	0.0000	-0.0003	0.0000	0.0000	0.0000
	3	-0.5955	0.8099	-0.8750	0.2943	0.4721	0.2185	0.0555	0.0073	0.0000	-0.0001	0.0000
	4	0.3946	-0.6068	0.8452	-0.6934	-0.0325	0.4313	0.3214	0.1242	0.0291	0.0037	0.0000
	5	-0.2509	0.4257	-0.7030	0.8207	-0.4280	-0.2790	0.2892	0.3778	0.2081	0.0705	0.0153
	6	0.1552	-0.2855	0.5360	-0.7758	0.6977	-0.1286	-0.4025	0.0897	0.3636	0.2852	0.1304
	7	-0.0940	0.1855	-0.3856	0.6507	-0.7769	0.4850	0.1420	-0.3921	-0.1110	0.2753	0.3305
	8	0.0561	-0.1176	0.2662	-0.5057	0.7289	-0.6869	0.2198	0.3285	-0.2700	-0.2601	0.1316
	9	-0.0330	0.0732	-0.1780	0.3726	-0.6174	0.7412	-0.5107	-0.0452	0.3981	-0.0834	-0.3219
	10	0.0193	-0.0447	0.1163	-0.2636	0.4882	-0.4433	0.6715	-0.2754	-0.2562	0.3483	0.1085

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	102616-09	478502-09	104392-08	111511-08	458076-09	350090-10	-195095-08	-495909-08	-530736-08	-254530-08
	1	105999 01	831451 00	-160871 00	537514-01	-204921-01	859407-02	-404565-02	885214-03	-292420-02	-202937-02	-155099-02
	2	293347 00	970440 00	593164 00	-275233 00	124985 00	-607876-01	331507-01	-493389-02	330999-01	252169-01	183626-01
	3	210332-04	449455 00	100085 01	318200 00	-264603 00	179981 00	-130422 00	-418457-02	-205627 00	-172522 00	-118396 00
	4	-136171-01	922803-01	618524 00	807736 00	-907593-01	-176275 00	290617 00	157000 00	871678 00	801375 00	517614 00
	5	659919-03	805366-03	322296 00	115649 01	102151 01	-333406 00	-362843 00	-878249 00	-275006 01	-274940 01	-166334 01
	6	-902822-03	-536320-02	-191289 00	-423613 00	175657 00	724113 00	396279 00	278220 01	667254 01	713375 01	401829 01
	7	326862-02	385338-02	414988 00	159840 01	189333 01	371447 00	-128745 01	-566676 01	-125118 02	-138721 02	-722525 01
	8	-474258-02	-527574-02	-534294 00	-188247 01	-144228 01	142190 01	282206 01	762473 01	177245 02	194102 02	927168 01
	9	399558-02	471664-02	441964 00	157483 01	145391 01	-208762 00	-124666 01	-724473 01	-175247 02	-177060 02	-767964 01
	10	-199456-02	-235919-02	-180214 00	-641678 00	-558565 00	425705 00	180170 01	536173 01	936752 01	803134 01	312429 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.5400$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.0800	0.9390	0.2160	0.0268	0.0000	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.8748	-0.9851	0.6251	0.3988	0.1111	0.0153	0.0000	-0.0003	0.0000	0.0000	0.0000
	3	-0.6298	0.8370	-0.8761	0.2708	0.4719	0.2253	0.0587	0.0079	0.0000	-0.0001	0.0000
	4	0.4252	-0.6386	0.8632	-0.6783	-0.0593	0.4212	0.3277	0.1304	0.0313	0.0040	0.0000
	5	-0.2755	0.4563	-0.7319	0.8243	-0.3978	-0.3001	0.2681	0.3789	0.2163	0.0754	0.0168
	6	0.1736	-0.3117	0.5687	-0.7964	0.6825	-0.0900	-0.4093	0.0614	0.3551	0.2924	0.1382
	7	-0.1071	0.2063	-0.4169	0.6818	-0.7822	0.4513	0.1784	-0.3799	-0.1387	0.2555	0.3323
	8	0.0651	-0.1332	0.2933	-0.5404	0.7514	-0.6718	0.1736	0.3513	-0.2401	-0.2779	0.1030
	9	-0.0390	0.0844	-0.1998	0.4060	-0.6504	0.7477	-0.4746	-0.0929	0.3987	-0.0437	-0.3223
	10	0.0233	-0.0526	0.1330	-0.2928	0.5250	-0.7178	0.6563	-0.2237	-0.2924	0.3247	0.1460

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	573205-09	281206-09	379283-09	218692-09	438153-09	968571-09	922618-09	114616-08	121364-08	733176-09
	1	107999 01	825031 00	-162015 00	547268-01	-216629-01	922341-02	-431177-02	108184-02	-273936-02	-174378-02	-138352-02
	2	305073 00	985074 00	580246 00	-270174 00	130114 00	-638899-01	341727-01	-638978-02	301473-01	216461-01	160242-01
	3	165883-04	466570 00	100208 01	273247 00	-278457 00	186269 00	-128685 00	138862-02	-182359 00	-148027 00	-100977 00
	4	-147418-01	979948-01	669529 00	909593 00	-197700-01	-190412 00	267437 00	141091 00	755318 00	687235 00	431785 00
	5	594647-03	718207-03	240739 00	837450 00	702565 00	-256584 00	-284992 00	-832085 00	-234053 01	-235645 01	-135721 01
	6	-612264-03	-549292-02	406141-01	418763 00	914456 00	466415 00	250936 00	264541 01	562371 01	611021 01	320706 01
	7	292606-02	340212-02	379172-02	130317 00	614741 00	776371 00	-107257 01	-535630 01	-105597 02	-118729 02	-564048 01
	8	-427962-02	-462134-02	-674741-02	150519-01	248775 00	927717 00	248795 01	720561 01	151638 02	165993 02	707979 01
	9	355746-02	415293-02	483504-02	465751-02	733831-01	242550 00	-993496 00	-699655 01	-153364 02	-151281 02	-573589 01
	10	-181893-02	-213374-02	-236289-02	-295604-02	656663-02	269866 00	176722 01	530263 01	839902 01	685523 01	228249 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.5500$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.1000	0.9366	0.2200	0.0279	0.0000	-0.0005	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.9075	-0.9995	0.6111	0.4036	0.1153	0.0162	0.0000	-0.0003	0.0000	0.0000	0.0000
3	-0.6655	0.8643	-0.8763	0.2472	0.4712	0.2320	0.0621	0.0086	0.0000	-0.0002	0.0000
4	0.4575	-0.6713	0.8805	-0.6618	-0.0856	0.4103	0.3336	0.1368	0.0337	0.0044	0.0000
5	-0.3020	0.4884	-0.7607	0.8261	-0.3666	-0.3197	0.2463	0.3791	0.2245	0.0806	0.0184
6	0.1938	-0.3397	0.6023	-0.8158	0.6649	-0.0514	-0.4136	0.0332	0.3453	0.2991	0.1461
7	-0.1218	0.2290	-0.4498	0.7126	-0.7849	0.4154	0.2131	-0.3648	-0.1650	0.2345	0.3330
8	0.0754	-0.1505	0.3223	-0.5760	0.7721	-0.6531	0.1266	0.3705	-0.2082	-0.2928	0.0738
9	-0.0460	0.0972	-0.2237	0.4411	-0.6828	0.7505	-0.4351	-0.1391	0.3946	-0.0039	-0.3187
10	0.0279	-0.0616	0.1516	-0.3242	0.5626	-0.7392	0.6364	-0.1702	-0.3243	0.2965	0.1809

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	521208-09	251117-09	492276-09	447250-09	422552-09	115740-08	144102-08	167142-08	175313-08	680374-09
1	109999 01	818491 00	-162960 00	559876-01	-225579-01	977510-02	-471290-02	971925-03	-347392-02	-236494-02	-174629-02
2	317069 00	999480 00	566141 00	-268566 00	131754 00	-658387-01	365902-01	-421662-02	377601-01	285628-01	197919-01
3	166821-04	484025 00	100947 01	252589 00	-270455 00	185040 00	-135467 00	-160642-01	-225450 00	-189580 00	-121936 00
4	-160199-01	103875 00	691161 00	904550 00	-416708-01	-173264 00	281304 00	223369 00	922837 00	855546 00	510108 00
5	788255-03	905935-03	254528 00	858286 00	683007 00	-277604 00	-326780 00	-109261 01	-282647 01	-285226 01	-156875 01
6	-800639-03	-630539-02	435952-01	439747 00	926022 00	447541 00	392545 00	323016 01	670312 01	719149 01	362674 01
7	355583-02	409351-02	456604-02	140676 00	641885 00	748966 00	-136376 01	-631645 01	-123771 02	-135895 02	-624061 01
8	-499181-02	-540068-02	-784210-02	162436-01	265399 00	984833 00	279547 01	839196 01	173693 02	184785 02	766364 01
9	408755-02	476049-02	553781-02	530829-02	808774-01	237542 00	-127238 01	-805705 01	-170375 02	-163810 02	-607461 01
10	-203042-02	-237943-02	-262458-02	-329036-02	731764-02	301202 00	194908 01	576478 01	899079 01	722107 01	236499 01

$\gamma = 0.5600$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.1200	0.9341	0.2240	0.0290	0.0000	-0.0005	0.0000	0.0000	0.0000	-0.0000	0.0000
2	0.9408	-1.0137	0.5968	0.4082	0.1195	0.0172	0.0000	-0.0004	0.0000	0.0000	0.0000
3	-0.7025	0.8918	-0.8757	0.2234	0.4702	0.2387	0.0655	0.0093	0.0000	-0.0002	0.0000
4	0.4917	-0.7049	0.8970	-0.6441	-0.1114	0.3986	0.3393	0.1433	0.0363	0.0049	0.0000
5	-0.3304	0.5219	-0.7895	0.8261	-0.3344	-0.3378	0.2239	0.3785	0.2326	0.0859	0.0202
6	0.2159	-0.3696	0.6366	-0.8337	0.6449	-0.0129	-0.4155	0.0050	0.3343	0.3052	0.1542
7	-0.1382	0.2535	-0.4841	0.7430	-0.7848	0.3773	0.2459	-0.3471	-0.1899	0.2123	0.3325
8	0.0871	-0.1697	0.3532	-0.6122	0.7906	-0.6308	0.0790	0.3859	-0.1745	-0.3047	0.0443
9	-0.0541	0.1115	-0.2496	0.4777	-0.7143	0.7496	-0.3923	-0.1834	0.3857	0.0356	-0.3113
10	0.0334	-0.0720	0.1723	-0.3578	0.6006	-0.7577	0.6116	-0.1153	-0.3526	0.2642	0.2126

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	753861-09	755404-09	869091-09	940736-09	953788-09	144722-08	285705-08	484892-08	444623-08	171914-08
1	111999 01	811830 00	-163804 00	571977-01	-234546-01	103393-01	-516915-02	741339-03	-449009-02	-325156-02	-223172-02
2	329326 00	101367 01	551962 00	-266579 00	133213 00	-676864-01	393930-01	-728683-03	480783-01	380808-01	246893-01
3	356335-04	501790 00	101617 01	231968 00	-262036 00	183080 00	-144018 00	-410134-01	-282784 00	-244932 00	-148506 00
4	-173950-01	109999 00	712773 00	898253 00	-627296-01	-154562 00	302171 00	334017 00	114245 01	107396 01	607597 00
5	100773-02	102055-02	268491 00	878438 00	661919 00	-300659 00	-390810 00	-143115 01	-345555 01	-348253 01	-182925 01
6	-111915-02	-705755-02	470228-01	461248 00	937330 00	435910 00	582747 00	397445 01	807423 01	853678 01	413800 01
7	432103-02	456874-02	473220-02	151361 00	667578 00	706581 00	-172837 01	-752285 01	-146343 02	-156862 02	-696806 01
8	-589013-02	-589651-02	-824205-02	178321-01	284823 00	105670 01	318538 01	985379 01	200386 02	207409 02	837375 01
9	473308-02	513343-02	566278-02	575898-02	873072-01	221121 00	-161713 01	-931339 01	-190443 02	-178801 02	-649539 01
10	-228325-02	-253117-02	-265732-02	-355203-02	878372-02	338535 00	215643 01	629155 01	967841 01	766502 01	247465 01

$\gamma = 0.5700$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.1400	0.9316	0.2280	0.0302	0.0000	-0.0006	0.0000	0.0000	0.0000	-0.0000	0.0000
	2	0.9747	-1.0276	0.5823	0.4126	0.1238	0.0182	0.0000	-0.0004	0.0000	0.0000	0.0000
	3	-0.7408	0.9194	-0.8741	0.1995	0.4682	0.2454	0.0691	0.0100	0.0000	-0.0002	0.0000
	4	0.5278	-0.7393	0.9126	-0.6251	-0.1367	0.3860	0.3445	0.1499	0.0389	0.0054	0.0000
	5	-0.3610	0.5570	-0.8180	0.8242	-0.3012	-0.3543	0.2008	0.3770	0.2406	0.0915	0.0220
	6	0.2401	-0.4013	0.6715	-0.8500	0.6225	0.0253	-0.4149	-0.0229	0.3220	0.3107	0.1624
	7	-0.1564	0.2802	-0.5200	0.7727	-0.7817	0.3374	0.2765	-0.3268	-0.2131	0.1889	0.3307
	8	0.1003	-0.1908	0.3862	-0.6489	0.8068	-0.6049	0.0311	0.3974	-0.1394	-0.3136	0.0148
	9	-0.0635	0.1276	-0.2778	0.5158	-0.7447	0.7446	-0.3466	-0.2244	0.3721	0.0742	-0.3001
	10	0.0399	-0.0839	0.1952	-0.3936	0.6389	-0.7728	0.5819	-0.0596	-0.3736	0.2281	0.2406

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 00	348187-09	355104-09	594527-09	338675-09	580750-09	321355-09	-996374-09	-155641-08	-667201-09
	1	113999 01	805051 00	-164508 00	584019-01	-243498-01	109156-01	-565915-02	410921-03	-571211-02	-432304-02	-279928-02
	2	341859 00	102760 01	537541 00	-264443 00	134453 00	-694859-01	424280-01	390962-02	605329-01	495631-01	304182-01
	3	535255-04	519891 00	102236 01	211659 00	-252935 00	180965 00	-153750 00	-726204-01	-351821 00	-311068 00	-179410 00
	4	-188779-01	116431 00	734827 00	891198 00	-841838-01	-137055 00	328015 00	469245 00	140401 01	133028 01	719354 00
	5	125288-02	129301-02	283549 00	899329 00	643107 00	-317928 00	-469548 00	-183319 01	-418981 01	-420352 01	-212075 01
	6	-149614-02	-804922-02	504239-01	481895 00	939387 00	413269 00	804195 00	484340 01	964859 01	100451 02	470056 01
	7	516366-02	537190-02	569684-02	165596 00	707318 00	680753 00	-213621 01	-891491 01	-171781 02	-179912 02	-775584 01
	8	-683861-02	-667737-02	-949120-02	159304-01	287536 00	110425 01	362194 01	115196 02	229905 02	231878 02	913489 01
	9	542047-02	578263-02	646715-02	922258-02	108647 00	224359 00	-200109 01	-107138 02	-212252 02	-194840 02	-694669 01
	10	-251126-02	-267424-02	-288874-02	-508735-02	453007-02	369666 00	237971 01	686599 01	104182 02	814124 01	259567 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.5800$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.1600	0.9291	0.2320	0.0314	0.0000	-0.0006	0.0000	0.0000	0.0000	-0.0000	0.0000
	2	1.0092	-1.0413	0.5675	0.4168	0.1282	0.0193	0.0000	-0.0004	0.0000	0.0000	0.0000
	3	-0.7804	0.9472	-0.8717	0.1755	0.4659	0.2521	0.0728	0.0107	0.0000	-0.0002	0.0000
	4	0.5658	-0.7746	0.9273	-0.6048	-0.1614	0.3727	0.3493	0.1566	0.0417	0.0059	0.0000
	5	-0.3938	0.5935	-0.8463	0.8204	-0.2672	-0.3692	0.1771	0.3746	0.2485	0.0972	0.0240
	6	0.2665	-0.4350	0.7071	-0.8646	0.5977	0.0630	-0.4119	-0.0505	0.3084	0.3155	0.1708
	7	-0.1766	0.3089	-0.5573	0.8016	-0.7756	0.2957	0.3048	-0.3040	-0.2345	0.1646	0.3275
	8	0.1153	-0.2141	0.4212	-0.6859	0.8203	-0.5754	-0.0165	0.4048	-0.1031	-0.3192	-0.0146
	9	-0.0742	0.1444	-0.3084	0.5554	-0.7735	0.7352	-0.2981	-0.2641	0.3539	0.1115	-0.2852
	10	0.0475	-0.0974	0.2204	-0.4314	0.6770	-0.7843	0.5474	-0.0037	-0.3901	0.1888	0.2646

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 00	529873-09	678159-09	410055-09	275505-09	-699034-10	-189393-08	-382587-08	-304210-08	-701214-09
	1	115999 01	798146 00	-165105 00	595473-01	-252454-01	114972-01	-621747-02	-854230-04	-729495-02	-571941-02	-350861-02
	2	354755 00	104135 01	523048 00	-261908 00	135546 00	-711021-01	459034-01	100485-01	759172-01	636624-01	372009-01
	3	-467715-03	537942 00	102795 01	191302 00	-243794 00	177699 00	-165243 00	-111287 00	-433426 00	-388081 00	-214158 00
	4	-181868-01	124647 00	756471 00	883477 00	-103196 00	-116400 00	359919 00	626522 00	170235 01	161625 01	839509 00
	5	-549475-02	-324517-02	299857 00	917635 00	618167 00	-342238 00	-565478 00	-228486 01	-500380 01	-498020 01	-242209 01
	6	144796-01	208781-02	518697-01	507356 00	952351 00	409869 00	105650 01	578454 01	113272 02	115962 02	524981 01
	7	-225295-01	-133567-01	102621-01	172510 00	725329 00	619463 00	-257846 01	-103712 02	-197786 02	-202399 02	-847070 01
	8	280799-01	170576-01	-153084-01	243052-01	319055 00	119206 01	408400 01	131993 02	258651 02	254187 02	975383 01
	9	-233201-01	-137426-01	109068-01	428474-02	107145 00	194859 00	-239862 01	-120719 02	-232289 02	-208110 02	-724943 01
	10	922086-02	530737-02	-463662-02	-312537-02	101153-01	415694 00	260490 01	739991 01	110444 02	847224 01	264635 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.5900$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.1800	0.9265	0.2360	0.0325	0.0000	-0.0007	0.0000	0.0000	0.0000	-0.0000	0.0000
2	1.0443	-1.0548	0.5524	0.4209	0.1326	0.0204	0.0000	-0.0005	0.0000	0.0000	0.0000
3	-0.8215	0.9752	-0.8683	0.1514	0.4630	0.2587	0.0766	0.0116	0.0000	-0.0003	0.0000
4	0.6059	-0.8107	0.9411	-0.5833	-0.1854	0.3586	0.3537	0.1635	0.0447	0.0065	0.0000
5	-0.4289	0.6316	-0.8742	0.8146	-0.2325	-0.3823	0.1530	0.3712	0.2562	0.1032	0.0262
6	0.2953	-0.4708	0.7433	-0.8773	0.5702	0.1000	-0.4063	-0.0775	0.2936	0.3196	0.1791
7	-0.1991	0.3400	-0.5960	0.8294	-0.7664	0.2525	0.3304	-0.2789	-0.2538	0.1395	0.3230
8	0.1322	-0.2396	0.4583	-0.7231	0.8308	-0.5424	-0.0636	0.4079	-0.0660	-0.3215	-0.0437
9	-0.0866	0.1658	-0.3413	0.5961	-0.8005	0.7215	-0.2473	-0.2996	0.3314	0.1470	-0.2668
10	0.0563	-0.1128	0.2482	-0.4715	0.7147	-0.7916	0.5083	0.0518	-0.4008	0.1469	0.2840

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 00	504571-09	547597-09	553799-09	350497-09	-836794-09	-493466-08	-968320-08	-901480-08	-349216-08
1	117999 01	791132 00	-165590 00	606445-01	-261351-01	120847-01	-686149-02	-830558-03	-938103-02	-757229-02	-441099-02
2	367749 00	105474 01	508487 00	-259066 00	136416 00	-725854-01	500610-01	187748-01	961587-01	822304-01	457826-01
3	120049-03	557077 00	103273 01	171229 00	-234123 00	173798 00	-180151 00	-164052 00	-540358 00	-488450 00	-257872 00
4	-222079-01	129987 00	778882 00	874353 00	-122034 00	-951090-01	404851 00	834737 00	209054 01	198422 01	989853 00
5	194976-02	197923-02	314718 00	936773 00	594181 00	-366050 00	-697978 00	-286818 01	-604801 01	-596208 01	-279596 01
6	-253181-02	-105268-01	581376-01	530020 00	959182 00	407513 00	138365 01	698557 01	134563 02	135371 02	593329 01
7	733865-02	746923-02	669657-02	185738 00	751850 00	555431 00	-313028 01	-122147 02	-230338 02	-230378 02	-937290 01
8	-924462-02	-877067-02	-106286-01	259462-01	340445 00	127800 01	466605 01	152981 02	294167 02	282057 02	105655 02
9	703637-02	732295-02	698926-02	539301-02	115292 00	167481 00	-288715 01	-137202 02	-256787 02	-225057 02	-768507 01
10	-310600-02	-315027-02	-253145-02	-315499-02	120759-01	462332 00	286426 01	803122 01	118180 02	892939 01	274559 01

$\gamma = 0.6000$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.2000	0.9238	0.2400	0.0338	0.0000	-0.0007	0.0000	0.0000	0.0000	-0.0000	0.0000
2	1.0800	-1.0680	0.5371	0.4248	0.1371	0.0216	0.0000	-0.0005	0.0000	0.0000	0.0000
3	-0.8640	1.0032	-0.8640	0.1273	0.4596	0.2653	0.0806	0.0125	0.0000	-0.0003	0.0000
4	0.6480	-0.8476	0.9538	-0.5606	-0.2087	0.3437	0.3577	0.1704	0.0478	0.0071	0.0000
5	-0.4665	0.6713	-0.9016	0.8067	-0.1971	-0.3937	0.1284	0.3668	0.2637	0.1094	0.0285
6	0.3266	-0.5086	0.7799	-0.8880	0.5411	0.1362	-0.3982	-0.1038	0.2776	0.3229	0.1876
7	-0.2239	0.3735	-0.6360	0.8560	-0.7538	0.2080	0.3532	-0.2516	-0.2710	0.1136	0.3170
8	0.1512	-0.2676	0.4974	-0.7601	0.8383	-0.5060	-0.1098	0.4069	-0.0285	-0.3204	-0.0721
9	-0.1007	0.1882	-0.3768	0.6380	-0.8253	0.7032	-0.1945	-0.3313	0.3046	0.1802	-0.2450
10	0.0666	-0.1302	0.2785	-0.5135	0.7516	-0.7945	0.4646	0.1062	-0.4055	0.1029	0.2985

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	463383-09	265258-09	502166-09	263745-09	520061-09	149628-08	354514-08	606890-08	505861-08	164260-08
1	119999 01	783989 00	-165946 00	617003-01	-270175-01	126734-01	-760719-02	-189512-02	-120881-01	-998310-02	-554024-02
2	381133 00	106794 01	493782 00	-255957 00	137071 00	-738918-01	550313-01	306268-01	122113 00	105947 00	563571-01
3	188315-03	576161 00	103697 01	151431 00	-224043 00	169061 00	-199049 00	-232913 00	-675557 00	-614074 00	-310853 00
4	-240079-01	137275 00	800833 00	864013 00	-140174 00	-723889-01	464243 00	109796 01	257303 01	243463 01	116871 01
5	231312-02	214339-02	331402 00	955603 00	569769 00	-391725 00	-869511 00	-358777 01	-732252 01	-713814 01	-323301 01
6	-299281-02	-114149-01	618073-01	552746 00	963412 00	411719 00	178608 01	843842 01	160024 02	158121 02	671880 01
7	833750-02	787302-02	842298-02	200594 00	780224 00	479556 00	-378519 01	-144057 02	-268396 02	-262491 02	-103937 02
8	-102951-01	-912522-02	-130802-01	261251-01	360351 00	137313 01	535331 01	177414 02	334724 02	313447 02	114730 02
9	770812-02	754730-02	839340-02	726169-02	126124 00	133323 00	-345198 01	-155868 02	-284179 02	-243914 02	-817224 01
10	-332884-02	-330662-02	-345277-02	-446808-02	133949-01	513166 00	314972 01	872538 01	126669 02	943526 01	285839 01

$\gamma = 0.6100$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.2200	0.9210	0.2440	0.0350	0.0000	-0.0008	0.0000	0.0000	0.0000	-0.0000	0.0000
2	1.1163	-1.0809	0.5216	0.4286	0.1418	0.0228	0.0000	-0.0006	0.0000	0.0001	0.0000
3	-0.9079	1.0313	-0.8587	0.1031	0.4557	0.2718	0.0847	0.0134	0.0000	-0.0003	0.0000
4	0.6923	-0.8853	0.9654	-0.5367	-0.2313	0.3281	0.3611	0.1774	0.0510	0.0078	0.0000
5	-0.5067	0.7125	-0.9285	0.7967	-0.1612	-0.4032	0.1035	0.3614	0.2709	0.1158	0.0309
6	0.3607	-0.5487	0.8168	-0.8966	0.5093	0.1713	-0.3877	-0.1294	0.2604	0.3254	0.1961
7	-0.2514	0.4095	-0.6774	0.8812	-0.7380	0.1624	0.3731	-0.2225	-0.2859	0.0871	0.3096
8	0.1726	-0.2982	0.5387	-0.7968	0.8423	-0.4662	-0.1546	0.4016	0.0091	-0.3160	-0.0996
9	-0.1169	0.2132	-0.4149	0.6808	-0.8475	0.6803	-0.1402	-0.3588	0.2740	0.2107	-0.2201
10	0.0786	-0.1500	0.3118	-0.5575	0.7873	-0.7925	0.4166	0.1588	-0.4041	0.0575	0.3079

U^{-1}

0	100000 01	457828-09	568046-09	591161-09	843050-09	101963-08	255692-08	839225-08	144299-07	125351-07	440118-08	
1	121999 01	776730 00	-166180 00	627032-01	-278891-01	132593-01	-848853-02	-339477-02	-156211-01	-131275-01	-696068-02	
2	394785 00	108086 01	478995 00	-252536 00	137502 00	-749863-01	610900-01	465645-01	155419 00	136178 00	693952-01	
3	252238-03	595581 00	104054 01	131824 00	-213583 00	163351 00	-223161 00	-322057 00	-845911 00	-770476 00	-374855 00	
4	-260320-01	144715 00	822820 00	852768 00	-157509 00	-478549-01	541899 00	142852 01	316957 01	298249 01	138046 01	
5	289908-02	269857-02	348739 00	973623 00	544720 00	-420347 00	-108837 01	-446952 01	-886695 01	-853608 01	-374034 01	
6	-388168-02	-131683-01	655521-01	576345 00	965662 00	424636 00	227706 01	101829 02	190222 02	184559 02	761338 01	
7	100003-01	946461-02	101850-01	215180 00	809223 00	389069 00	-455902 01	-169879 02	-312513 02	-298998 02	-115353 02	
8	-120506-01	-107088-01	-152672-01	279303-01	380272 00	148012 01	615912 01	205589 02	380611 02	348390 02	124712 02	
9	885062-02	865858-02	967122-02	822654-02	138152 00	902519-01	-409878 01	-176774 02	-314413 02	-264494 02	-870030 01	
10	-372259-02	-369548-02	-386184-02	-495871-02	146270-01	568972 00	346276 01	948112 01	135853 02	998008 01	298030 01	
L \ L'	0	1	2	3	4	5	6	7	8	9	10	

$\gamma = 0.6200$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.2400	0.9183	0.2480	0.0363	0.0000	-0.0009	0.0000	0.0000	0.0000	-0.0000	0.0000
2	1.1532	-1.0936	0.5058	0.4321	0.1464	0.0241	0.0000	-0.0006	0.0000	0.0001	0.0000
3	-0.9533	1.0594	-0.8524	0.0789	0.4511	0.2782	0.0889	0.0144	0.0000	-0.0004	0.0000
4	0.7388	-0.9238	0.9758	-0.5116	-0.2529	0.3117	0.3641	0.1845	0.0545	0.0085	0.0000
5	-0.5497	0.7552	-0.9546	0.7846	-0.1248	-0.4108	0.0784	0.3550	0.2779	0.1224	0.0335
6	0.3977	-0.5909	0.8538	-0.9028	0.4754	0.2052	-0.3747	-0.1539	0.2420	0.3270	0.2045
7	-0.2817	0.4481	-0.7199	0.9046	-0.7187	0.1159	0.3897	-0.1915	-0.2983	0.0602	0.3007
8	0.1965	-0.3316	0.5819	-0.8330	0.8426	-0.4233	-0.1976	0.3920	0.0463	-0.3081	-0.1260
9	-0.1353	0.2409	-0.4556	0.7242	-0.8667	0.6527	-0.0849	-0.3817	0.2399	0.2380	-0.1923
10	0.0924	-0.1722	0.3481	-0.6034	0.8213	-0.7855	0.3646	0.2089	-0.3963	0.0115	0.3119

U^{-1}

0	100000 01	-727596-11	600245-09	533061-09	634052-09	937698-09	408845-08	125502-07	217319-07	191872-07	684507-08	
1	123999 01	769351 00	-166288 00	636516-01	-287473-01	138366-01	-954562-02	-547602-02	-202294-01	-172149-01	-874510-02	
2	408726 00	109350 01	464123 00	-248821 00	137703 00	-758238-01	685771-01	678263-01	198131 00	174625 00	854601-01	
3	335640-03	615338 00	104344 01	112497 00	-202771 00	156510 00	-254069 00	-437025 00	-106043 01	-964913 00	-452163 00	
4	-282355-01	152416 00	844759 00	840475 00	-173989 00	-210783-01	642771 00	184307 01	390667 01	364840 01	163126 01	
5	363224-02	339378-02	366790 00	991079 00	519074 00	-453007 00	-136565 01	-554961 01	-107373 02	-101974 02	-432967 01	
6	-499960-02	-152258-01	693142-01	600217 00	965936 00	448274 00	287472 01	122770 02	226017 02	215286 02	863301 01	
7	119942-01	113728-01	123082-01	230682 00	838630 00	281584 00	-547361 01	-200287 02	-363624 02	-340512 02	-128130 02	
8	-141114-01	-125684-01	-178218-01	297656-01	400442 00	160107 01	710225 01	238042 02	432510 02	387296 02	135693 02	
9	101666-01	993385-02	111449-01	931150-02	151247 00	368737-01	-483781 01	-200182 02	-347789 02	-286963 02	-927254 01	
10	-416551-02	-413164-02	-432215-02	-549972-02	159185-01	630283 00	380571 01	103036 02	145778 02	105656 02	311118 01	
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.6300$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.2600	0.9154	0.2520	0.0376	0.0000	-0.0009	0.0000	0.0001	0.0000	-0.0000	0.0000
2	1.1907	-1.1060	0.4897	0.4354	0.1512	0.0255	0.0000	-0.0007	0.0000	0.0001	0.0000
3	-1.0002	1.0876	-0.8452	0.0547	0.4460	0.2846	0.0933	0.0155	0.0000	-0.0004	0.0000
4	0.7877	-0.9630	0.9850	-0.4853	-0.2737	0.2946	0.3665	0.1917	0.0581	0.0093	0.0000
5	-0.5954	0.7996	-0.9799	0.7703	-0.0882	-0.4164	0.0530	0.3476	0.2845	0.1292	0.0363
6	0.4377	-0.6355	0.8910	-0.9065	0.4394	0.2375	-0.3593	-0.1774	0.2226	0.3276	0.2130
7	-0.3151	0.4895	-0.7635	0.9260	-0.6959	0.0689	0.4029	-0.1591	-0.3080	0.0330	0.2904
8	0.2234	-0.3680	0.6273	-0.8682	0.8390	-0.3775	-0.2385	0.3782	0.0827	-0.2969	-0.1510
9	-0.1563	0.2716	-0.4991	0.7680	-0.8826	0.6202	-0.0289	-0.3996	0.2026	0.2617	-0.1620
10	0.1085	-0.1973	0.3874	-0.6508	0.8532	-0.7729	0.3089	0.2559	-0.3824	-0.0344	0.3104

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	466298-09	547399-09	658535-09	612214-09	242134-09	-782987-09	-499966-08	-101185-07	-904316-08	-318753-08
1	125999 01	761853 00	-166268 00	645420-01	-295888-01	143982-01	-108336-01	-833614-02	-262457-01	-225230-01	-109885-01
2	422960 00	110587 01	449174 00	-244815 00	137664 00	-763501-01	779506-01	960419-01	252936 00	223486 00	105273 00
3	444410-03	635440 00	104568 01	934853-01	-191625 00	148343 00	-293838 00	-584945 00	-133062 01	-120656 01	-545643 00
4	-306427-01	160371 00	866610 00	827130 00	-189604 00	848920-02	773154 00	236255 01	481743 01	445779 01	192867 01
5	454964-02	426434-02	385604 00	100795 01	492957 00	-491061 00	-171511 01	-687260 01	-130020 02	-121725 02	-501518 01
6	-640200-02	-176480-01	730440-01	624305 00	964081 00	485033 00	360115 01	147908 02	268441 02	251023 02	979686 01
7	143861-01	136616-01	148676-01	247164 00	868505 00	154318 00	-655520 01	-236082 02	-422844 02	-387763 02	-142449 02
8	-165321-01	-147534-01	-208089-01	316150-01	420739 00	173834 01	820502 01	275405 02	491235 02	430663 02	147791 02
9	116833-01	113985-01	128461-01	105303-01	165513 00	-283494-01	-568106 01	-226393 02	-384668 02	-311528 02	-989364 01
10	-466413-02	-462139-02	-484103-02	-609565-02	172636-01	697607 00	418150 01	111993 02	156514 02	111956 02	325185 01

$\gamma = 0.6400$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.2800	0.9125	0.2560	0.0390	0.0000	-0.0010	0.0000	0.0001	0.0000	-0.0000	0.0000
2	1.2288	-1.1181	0.4734	0.4385	0.1560	0.0269	0.0000	-0.0008	0.0000	0.0001	0.0000
3	-1.0486	1.1158	-0.8369	0.0305	0.4403	0.2908	0.0978	0.0166	0.0000	-0.0005	0.0000
4	0.8389	-1.0029	0.9928	-0.4578	-0.2936	0.2768	0.3683	0.1989	0.0618	0.0101	0.0000
5	-0.6442	0.8455	-1.0042	0.7537	-0.0513	-0.4201	0.0276	0.3391	0.2908	0.1362	0.0393
6	0.4811	-0.6823	0.9280	-0.9076	0.4014	0.2683	-0.3416	-0.1996	0.2021	0.3272	0.2213
7	-0.3518	0.5337	-0.8081	0.9453	-0.6696	0.0217	0.4126	-0.1254	-0.3151	0.0057	0.2785
8	0.2534	-0.4076	0.6745	-0.9023	0.8314	-0.3289	-0.2768	0.3602	0.1180	-0.2824	-0.1744
9	-0.1801	0.3055	-0.5453	0.8120	-0.8947	0.5831	0.2482	-0.4122	0.1627	0.2815	-0.1296
10	0.1269	-0.2255	0.4301	-0.6997	0.8825	-0.7547	0.2502	0.2990	-0.3623	-0.0795	0.3033

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	461054-09	589358-09	618847-09	859639-09	699851-09	297786-09	-916053-09	-253110-08	-202128-08	-283440-09
1	127999 01	754218 00	-166050 00	659357-01	-295744-01	154030-01	-852324-02	326707-02	-635849-02	-393584-02	-412416-02
2	437562 00	111811 01	433508 00	-246005 00	129265 00	-810424-01	519194-01	-171992-01	538855-01	382134-01	356758-01
3	198792-03	654964 00	105066 01	103749 00	-137342 00	162584 00	-145170 00	194182-01	-249406 00	-201646 00	-162488 00
4	-318978-01	171916 00	875965 00	708264 00	-358979 00	-450745-01	218833 00	144526 00	808765 00	728219 00	489392 00
5	204169-02	-354940-02	438220 00	130299 01	879148 00	-305015 00	-226627 00	-838019 00	-204364 01	-194330 01	-103051 01
6	-875547-03	-261706-02	102331-01	867991-01	128453 00	719696-01	599928 00	238316 01	426519 01	391581 01	148907 01
7	640408-02	-105126-01	118210 00	111245 01	215373 01	706977 00	-197474 01	-454186 01	-748417 01	-590950 01	-130701 01
8	-776087-02	117897-01	-133047 00	-886225 00	-920239 00	113205 01	313588 01	658624 01	105740 02	641089 01	334617 00
9	534437-02	-741440-02	916145-01	661592 00	114269 01	431593 00	-215103 01	-773477 01	-106163 02	-452882 01	578258 00
10	-243223-02	199379-02	-323691-01	-234716 00	-318756 00	582470 00	301758 01	591595 01	561119 01	158906 01	-508028 00

$\gamma = 0.6500$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.3000	0.9095	0.2600	0.0404	0.0000	-0.0011	0.0000	0.0001	0.0000	-0.0000	0.0000
	2	1.2675	-1.1299	0.4568	0.4415	0.1610	0.0283	0.0000	-0.0009	0.0000	0.0001	0.0000
	3	-1.0985	1.1439	-0.8276	0.0064	0.4339	0.2969	0.1024	0.0178	0.0000	-0.0005	0.0000
	4	0.8925	-1.0434	0.9993	-0.4293	-0.3124	0.2583	0.3696	0.2062	0.0658	0.0110	0.0000
	5	-0.6962	0.8929	-1.0275	0.7349	-0.0144	-0.4216	0.0021	0.3295	0.2968	0.1433	0.0425
	6	0.5280	-0.7317	0.9648	-0.9059	0.3614	0.2971	-0.3216	-0.2204	0.1807	0.3257	0.2295
	7	-0.3922	0.5810	-0.8535	0.9621	-0.6398	-0.0255	0.4186	-0.0907	-0.3193	-0.0215	0.2651
	8	0.2868	-0.4505	0.7237	-0.9349	0.8194	-0.2779	-0.3120	0.3381	0.1517	-0.2648	-0.1958
	9	-0.2071	0.3429	-0.5942	0.8558	-0.9027	0.5413	0.0824	-0.4193	0.1206	0.2969	-0.0954
	10	0.1481	-0.2570	0.4760	-0.7498	0.9087	-0.7306	0.1887	0.3375	-0.3362	-0.1229	0.2908

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	468648-09	641478-09	209438-09	357793-09	273339-09	-116513-08	-538350-08	-982993-08	-871817-08	-319396-08
	1	129999 01	746497 00	-165833 00	661353-01	-312075-01	154349-01	-144228-01	-175278-01	-443872-01	-383459-01	-173683-01
	2	452364 00	112973 01	419074 00	-235949 00	136835 00	-761769-01	104963 00	182466 00	413681 00	364392 00	159969 00
	3	524580-03	676615 00	104815 01	565389-01	-168382 00	126950 00	-411387 00	-101856 01	-210009 01	-188000 01	-796002 00
	4	-353769-01	177298 00	909786 00	797288 00	-218252 00	790173-01	115623 01	382773 01	733374 01	663835 01	270171 01
	5	511605-02	598866-02	425934 00	103981 01	439951 00	-590460 00	-270238 01	-104784 02	-190649 02	-173173 02	-674522 01
	6	-652077-02	-225007-01	798240-01	672957 00	953187 00	609982 00	555279 01	214315 02	378328 02	341066 02	126507 02
	7	152149-01	176720-01	221278-01	283198 00	930122 00	-173272 00	-934968 01	-327779 02	-571030 02	-502999 02	-176601 02
	8	-171050-01	-182326-01	-288680-01	354562-01	461006 00	207330 01	109970 02	367879 02	633037 02	533153 02	175900 02
	9	117799-01	136247-01	173927-01	133122-01	198106 00	-201494 00	-773610 01	-288637 02	-470603 02	-367909 02	-113040 02
	10	-446754-02	-521706-02	-621518-02	-742234-02	200554-01	852584 00	504495 01	132406 02	180752 02	126070 02	356631 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.6600$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.3200	0.9065	0.2640	0.0418	0.0000	-0.0012	0.0000	0.0001	0.0000	-0.0000	0.0000
	2	1.3068	-1.1414	0.4399	0.4442	0.1659	0.0299	0.0000	-0.0009	0.0000	0.0001	0.0000
	3	-1.1500	1.1720	-0.8173	-0.0176	0.4270	0.3029	0.1072	0.0191	0.0000	-0.0006	0.0000
	4	0.9487	-1.0847	1.0044	-0.3997	-0.3301	0.2391	0.3702	0.2135	0.0699	0.0120	0.0000
	5	-0.7514	0.9420	-1.0496	0.7138	0.0224	-0.4211	-0.0232	0.3188	0.3022	0.1507	0.0458
	6	0.5786	-0.7834	1.0012	-0.9013	0.3198	0.3239	-0.2995	-0.2397	0.1583	0.3231	0.2376
	7	-0.4364	0.6314	-0.8996	0.9761	-0.6065	-0.0723	0.4208	-0.0553	-0.3206	-0.0484	0.2502
	8	0.3241	-0.4970	0.7747	-0.9656	0.8029	0.3114	-0.3439	0.3121	0.1834	-0.2440	-0.2150
	9	-0.2376	0.3840	-0.6459	0.8990	-0.9063	0.4949	0.1366	-0.4207	0.0768	0.3078	-0.0600
	10	0.1725	-0.2921	0.5255	-0.8008	0.9312	-0.7003	0.1253	0.3708	-0.3045	-0.1639	0.2728

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	927304-09	773143-09	842193-09	752066-09	685776-09	231708-09	-514869-09	-174793-09	113389-08	100591-08
	1	131998 01	738622 00	-166633 00	639572-01	-331040-01	176725-01	-772479-02	105185-01	508410-02	634349-02	-502648-03
	2	467665 00	114137 01	415109 00	-204773 00	146348 00	-916700-01	398797-01	-753060-01	-465725-01	-509825-01	180434-02
	3	-104256-03	696846 00	992714 00	-925621-01	-207762 00	194679 00	-755066-01	276049 00	232143 00	225660 00	123732-01
	4	-356411-01	189209 00	112187 01	123066 01	-549427-01	-157998 00	-134150-01	-660416 00	-795761 00	-713812 00	-140143 00
	5	-574458-03	-628653-03	-391300-01	-924981-01	-363508-01	576714-01	297724 00	113478 01	202929 01	181483 01	688591 00
	6	520250-02	-103746-01	102928 01	292857 01	181846 01	-683089 00	-316653 00	-153453 01	-394660 01	-392862 01	-217659 01
	7	-184002-02	-214871-02	-137115 01	-299303 01	-330142 00	166962 01	-556883 00	174318 01	583011 01	722280 01	478895 01
	8	173617-02	385144-02	147997 01	360691 01	188027 01	558073-01	128486 01	-122667 01	-631436 01	-105289 02	-729549 01
	9	-228283-02	-263451-02	-107657 01	-257153 01	-797636 00	129670 01	-671177 00	-875681 00	457574 01	106253 02	711294 01
	10	916903-03	952564-03	402403 00	957587 00	400317 00	340154 00	243696 01	257416 01	-170876 01	-551897 01	-343530 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.6700$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.3400	0.9034	0.2680	0.0432	0.0000	-0.0012	0.0000	0.0001	0.0000	-0.0000	0.0000
2	1.3467	-1.1526	0.4228	0.4466	0.1710	0.0314	0.0000	-0.0010	0.0000	0.0001	0.0000
3	-1.2030	1.2001	-0.8059	-0.0416	0.4194	0.3088	0.1122	0.0204	0.0000	-0.0007	0.0000
4	1.0076	-1.1265	1.0079	-0.3690	-0.3468	0.2193	0.3701	0.2209	0.0743	0.0130	0.0000
5	-0.8101	0.9925	-1.0703	0.6903	0.0590	-0.4185	-0.0483	0.3071	0.3072	0.1582	0.0494
6	0.6333	-0.8375	1.0370	-0.8936	0.2764	0.3484	-0.2753	-0.2573	0.1352	0.3193	0.2454
7	-0.4848	0.6851	-0.9462	0.9872	-0.5697	-0.1184	0.4192	-0.0195	-0.3190	-0.0748	0.2339
8	0.3655	-0.5472	0.8273	-0.9941	0.7817	-0.1697	-0.3719	0.2825	0.2127	-0.2204	-0.2319
9	-0.2720	0.4291	-0.7004	0.9413	-0.9048	0.4443	0.1889	-0.4162	0.0321	0.3137	-0.0237
10	0.2005	-0.3313	0.5784	-0.8522	0.9494	-0.6640	0.0604	0.3018	-0.2676	-0.2017	0.2496

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 00	696209-09	813622-09	490073-09	847691-09	148958-08	230443-08	271100-08	162534-08	270725-09
1	133998 01	730647 00	-164886 00	671785-01	-335656-01	167855-01	-894817-02	430625-02	-100832-01	-950178-02	-884589-02
2	483115 00	115252 01	389015 00	-223538 00	142446 00	-783743-01	497471-01	-106120-01	992174-01	998348-01	781726-01
3	134746-03	718393 00	104673 01	958662-02	-179732 00	118830 00	-129895 00	-926686-01	-549078 00	-568272 00	-373085 00
4	-391445-01	197960 00	955970 00	801376 00	-126786 00	984502-01	225492 00	786668 00	213837 01	220006 01	121712 01
5	193151-02	215058-02	460455 00	977461 00	107192 00	-560622 00	-505104 00	-309287 01	-627797 01	-623015 01	-291811 01
6	247931-03	-174670-01	103275 00	886910 00	143556 01	511833 00	169436 01	795306 01	142301 02	132335 02	525664 01
7	719747-02	779087-02	823462-02	102130 00	319010 00	-201153 00	-425021 01	-145674 02	-246811 02	-209306 02	-704765 01
8	-946212-02	-816607-02	-161528-01	251731 00	114623 01	210484 01	617029 01	194678 02	314511 02	236845 02	674158 01
9	688445-02	738354-02	850104-02	-114622 00	-161984 00	-194191 00	-507281 01	-184406 02	-267121 02	-173839 02	-416044 01
10	-297805-02	-332690-02	-329591-02	308633-01	143782 00	962780 00	447152 01	101481 02	115716 02	631742 01	126036 01

$\gamma = 0.6800$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.3600	0.9002	0.2720	0.0447	0.0000	-0.0013	0.0000	0.0001	0.0000	-0.0000	0.0000
2	1.3872	-1.1634	0.4055	0.4489	0.1762	0.0331	0.0000	-0.0011	0.0000	0.0001	0.0000
3	-1.2577	1.2280	-0.7935	-0.0653	0.4112	0.3145	0.1173	0.0218	0.0000	-0.0008	0.0000
4	1.0691	-1.1689	1.0098	-0.3374	-0.3622	0.1989	0.3694	0.2282	0.0788	0.0141	0.0000
5	-0.8723	1.0446	-1.0896	0.6645	0.0953	-0.4137	-0.0732	0.2943	0.3117	0.1658	0.0532
6	0.6921	-0.8942	1.0721	-0.8828	0.2317	0.3704	-0.2491	-0.2730	0.1113	0.3143	0.2529
7	-0.5378	0.7421	-0.9931	0.9949	-0.5295	-0.1634	0.4136	0.0164	-0.3144	-0.1005	0.2161
8	0.4115	-0.6013	0.8814	-1.0200	0.7557	-0.1134	-0.3957	0.2494	0.2392	-0.1941	-0.2460
9	-0.3108	0.4785	-0.7575	0.9822	-0.8981	0.3895	0.2388	-0.4057	-0.0130	0.3147	0.0128
10	0.2325	-0.3749	0.6350	-0.9038	0.9629	-0.6214	-0.0050	0.4192	-0.2260	-0.2355	0.2216

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 00	408942-09	551855-09	718879-09	602561-09	-908874-09	-468514-08	-893310-08	-755369-08	-236134-08
1	136001 01	722577 00	-164169 00	679921-01	-334249-01	165088-01	-246643-01	-480633-01	-100038 00	-856648-01	-350931-01
2	498694 00	116313 01	373627 00	-220502 00	133636 00	-709377-01	184157 00	449031 00	882080 00	762215 00	304344 00
3	126422-02	741220 00	104646 01	384754-02	-131612 00	749754-01	-758367 00	-226807 01	-422913 01	-367610 01	-142434 01
4	-455540-01	204155 00	973821 00	746323 00	-253977 00	234190 00	225681 01	781569 01	139701 02	121606 02	455596 01
5	105255-01	114753-01	490743 00	107833 01	358650 00	-844702 00	-536498 01	-197752 02	-342546 02	-296765 02	-107110 02
6	-145028-01	-352231-01	937967-01	754099 00	920760 00	100350 01	104478 02	377146 02	639629 02	546667 02	189215 02
7	274308-01	297103-01	304844-01	334633 00	102163 01	-937682 00	-159608 02	-541627 02	-905056 02	-753699 02	-248821 02
8	-287025-01	-286951-01	-378382-01	529796-01	525768 00	280505 01	173606 02	572020 02	936038 02	746570 02	233533 02
9	185843-01	200230-01	213524-01	107047-01	253446 00	-616985 00	-121310 02	-417648 02	-645299 02	-481345 02	-141504 02
10	-650433-02	-716721-02	-708905-02	-717980-02	265720-01	115199 01	672875 01	172305 02	228322 02	154161 02	421581 01

$\gamma = 0.6900$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.3800	0.8970	0.2760	0.0463	0.0000	-0.0014	0.0000	0.0001	0.0000	-0.0000	0.0000
	2	1.4283	-1.1740	0.3879	0.4509	0.1814	0.0348	0.0000	-0.0013	0.0000	0.0001	0.0000
	3	-1.3140	1.2557	-0.7800	-0.0890	0.4024	0.3201	0.1225	0.0233	0.0000	-0.0008	0.0000
	4	1.1334	0.0004	1.0101	-0.0003	-0.3763	0.0001	0.3679	0.0002	0.0836	-0.0002	0.0000
	5	-0.9384	1.0982	-1.1072	0.6364	0.1310	-0.4067	-0.0976	0.2804	0.3155	0.1736	0.0573
	6	0.7554	-0.9534	1.1061	-0.8686	0.1856	0.3898	-0.2211	-0.2867	0.0868	0.3081	0.2601
	7	-0.5957	0.8025	-1.0400	0.9992	-0.4860	-0.2069	0.4039	0.0521	-0.3066	-0.1253	0.1969
	8	0.4624	-0.6597	0.9369	-1.0429	0.7249	-0.0561	-0.4149	0.2133	0.2625	-0.1654	-0.2573
	9	-0.3545	0.5325	-0.8171	1.0213	-0.8858	0.3310	0.2856	-0.3892	-0.0579	0.3104	0.0490
	10	0.2691	-0.4233	0.6951	-0.9550	0.9710	-0.5727	-0.0703	0.4333	-0.1803	-0.2646	0.1892

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	-165581-08	375142-12	978089-09	114430-08	-191496-09	-100109-07	-362914-07	-607124-07	-496355-07	-158790-07
	1	147292 01	775087 00	-162251 00	573503-01	-558435-01	458503-01	280358 00	100290 01	162947 01	133416 01	427760 00
	2	155164 00	938540 00	354209 00	-171837 00	216213 00	-180256 00	-974892 00	-353992 01	-568101 01	-462499 01	-145050 01
	3	325174 00	975059 00	104839 01	-513244-01	-194523 00	151499 00	134217 00	784913 00	790741 00	445459 00	-871076-01
	4	671572 00	684708 00	100256 01	640701 00	-433555 00	532472 00	525091 01	181618 02	309749 02	260829 02	909473 01
	5	-895308 00	-579077 00	504676 00	119909 01	546025 00	-125666 01	-975067 01	-348174 02	-588148 02	-496149 02	-171281 02
	6	-247603 01	-164819 01	678591-01	107347 01	147801 01	436549 00	458816 01	171668 02	295002 02	256737 02	917020 01
	7	-284624 01	-184529 01	339099-02	700817 00	173044 01	-218980 01	-286449 02	-970426 02	-159926 03	-131020 03	-425573 02
	8	-151405 01	-100215 01	-615406-01	233582 00	890680 00	265781 01	152529 02	490782 02	784273 02	604672 02	181643 02
	9	-734646 00	-470533 00	159430-01	102273 00	454072 00	-104071 01	-165286 02	-558165 02	-859524 02	-644114 02	-191012 02
	10	-836004-01	-582352-01	-888878-02	128305-02	461473-01	124659 01	714286 01	179206 02	232247 02	152925 02	406790 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.7000$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.4000	0.8937	0.2800	0.0478	0.0000	-0.0016	0.0000	0.0001	0.0000	-0.0000	0.0000
	2	1.4700	-1.1842	0.3700	0.4527	0.1867	0.0366	0.0000	-0.0014	0.0000	0.0001	0.0000
	3	-1.3720	1.2833	-0.7653	-0.1124	0.3929	0.3254	0.1279	0.0250	0.0000	-0.0009	0.0000
	4	1.2005	-1.2553	1.0086	-0.2713	-0.3891	0.1564	0.3657	0.2428	0.0885	0.0167	0.0000
	5	-1.0084	1.1532	-1.1231	0.6059	0.1660	-0.3976	-0.1215	0.2654	0.3188	0.1815	0.0615
	6	0.8235	-1.0151	1.1389	-0.8509	0.1385	0.4063	-0.1914	-0.2983	0.0618	0.3006	0.2668
	7	-0.6588	0.8665	-1.0868	0.9995	-0.4393	-0.2485	0.3903	0.0872	-0.2958	-0.1490	0.1764
	8	0.5189	-0.7223	0.9935	-1.0624	0.6890	0.0017	-0.4293	0.1744	0.2822	-0.1346	-0.2656
	9	-0.4035	0.5913	-0.8792	1.0580	-0.8676	0.2691	0.3285	-0.3669	-0.1017	0.3010	0.0844
	10	0.3107	-0.4767	0.7589	-1.0054	0.9732	-0.5181	-0.1344	0.4400	-0.1312	-0.2883	0.1529

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 00	500311-09	461121-09	318814-09	348527-09	-988069-09	-431268-08	-643036-08	-484415-08	-152266-08
	1	140005 01	706056 00	-162347 00	688440-01	-346979-01	166059-01	-376633-01	-896107-01	-171993 00	-145255 00	-561638-01
	2	531150 00	118366 01	343137 00	-208955 00	129987 00	-619513-01	285090 00	793411 00	146345 01	124112 01	468901 00
	3	215783-02	786418 00	104216 01	-285294-01	-105537 00	188115-01	-119387 01	-379890 01	-675528 01	-573585 01	-210914 01
	4	-542507-01	222632 00	101393 01	706532 00	-274751 00	392137 00	358216 01	124440 02	214612 02	181708 02	648221 01
	5	162938-01	182787-01	541162 00	110186 01	309125 00	-112834 01	-839425 01	-300315 02	-505639 02	-424576 02	-146433 02
	6	-226216-01	-489918-01	983233-01	804573 00	879374 00	146775 01	156837 02	548020 02	905955 02	748615 02	248559 02
	7	387242-01	433028-01	446409-01	379853 00	109267 01	-169437 01	-226629 02	-754852 02	-122765 03	-987626 02	-314080 02
	8	-386177-01	-400691-01	-519502-01	598939-01	559892 00	349230 01	235378 02	764533 02	121283 03	935801 02	283274 02
	9	238905-01	266438-01	286754-01	133062-01	303221 00	-102071 01	-161381 02	-531854 02	-796064 02	-576944 02	-164959 02
	10	-774159-02	-909153-02	-903395-02	-867589-02	296989-01	140109 01	814009 01	205389 02	267123 02	176636 02	472428 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.7100$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.4200	0.8903	0.2840	0.0494	0.0000	-0.0017	0.0000	0.0001	0.0000	-0.0000	0.0000
2	1.5123	-1.1941	0.3519	0.4542	0.1920	0.0385	0.0000	-0.0015	0.0000	0.0001	0.0000
3	-1.4316	1.3107	-0.7496	-0.1356	0.3827	0.3305	0.1335	0.0267	0.0000	-0.0011	0.0000
4	1.2706	-1.2991	1.0054	-0.2369	-0.4005	0.1344	0.3627	0.2500	0.0937	0.0181	0.0000
5	-1.0825	1.2096	-1.1370	0.5731	0.2002	-0.3862	-0.1448	0.2493	0.3213	0.1895	0.0660
6	0.8967	-1.0794	1.1703	-0.8297	0.0906	0.4197	-0.1603	-0.3076	0.0365	0.2917	0.2732
7	-0.7276	0.9341	-1.1332	0.9958	-0.3895	-0.2879	0.3727	0.1213	-0.2819	-0.1713	0.1546
8	0.5812	-0.7896	1.0509	-1.0780	0.6482	0.0595	-0.4383	0.1333	0.2981	-0.1020	-0.2705
9	-0.4584	0.6554	-0.9435	1.0917	-0.8431	0.2044	0.3670	-0.3387	-0.1438	0.2863	0.1183
10	0.3581	-0.5358	0.8261	-1.0542	0.9688	-0.4577	-0.1966	0.4389	-0.0795	-0.3060	0.1134

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	-233271-09	492365-09	704181-09	102406-08	646378-09	-317025-08	-111347-07	-162989-07	-116767-07	-326016-08
1	142007 01	697619 00	-161212 00	691428-01	-352556-01	163246-01	-474618-01	-121640 00	-226115 00	-189340 00	-712615-01
2	547815 00	119334 01	327856 00	-202831 00	127661 00	-548033-01	360525 00	105080 01	188930 01	158555 01	583752 00
3	285710-02	809750 00	103911 01	-438071-01	-919894-01	-194703-01	-151367 01	-490774 01	-855429 01	-717419 01	-257426 01
4	-596151-01	231807 00	103296 01	685045 00	-284517 00	497399 00	452976 01	156958 02	266444 02	222453 02	775550 01
5	206278-01	230499-01	568750 00	111253 01	286683 00	-132419 01	-104902 02	-370268 02	-615213 02	-508705 02	-171741 02
6	-288370-01	-581243-01	991132-01	829352 00	851878 00	178949 01	191847 02	661191 02	107957 03	877714 02	285771 02
7	469835-01	523270-01	540996-01	404581 00	113152 01	-217759 01	-270087 02	-891887 02	-143157 03	-113294 03	-353988 02
8	-457940-01	-474167-01	-610066-01	634510-01	573991 00	391975 01	274367 02	884329 02	138243 03	105015 03	312990 02
9	277426-01	307771-01	332958-01	148085-01	331941 00	-127380 01	-185758 02	-600443 02	-885658 02	-633258 02	-178691 02
10	-876918-02	-102550-01	-102259-01	-952013-02	311277-01	154428 01	895877 01	224571 02	289555 02	189602 02	501794 01

$\gamma = 0.7200$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.4400	0.8869	0.2880	0.0511	0.0000	-0.0018	0.0000	0.0001	0.0000	-0.0000	0.0000
2	1.5552	-1.2036	0.3335	0.4554	0.1975	0.0405	0.0000	-0.0017	0.0000	0.0002	0.0000
3	-1.4930	1.3378	-0.7327	-0.1585	0.3719	0.3355	0.1392	0.0285	0.0000	-0.0012	0.0000
4	1.3437	-1.3433	1.0002	-0.2018	-0.4104	0.1120	0.3589	0.2571	0.0991	0.0196	0.0000
5	-1.1609	1.2675	-1.1487	0.5379	0.2333	-0.3726	-0.1672	0.2322	0.3231	0.1976	0.0708
6	0.9752	-1.1463	1.2000	-0.8048	0.0420	0.4299	-0.1278	-0.3145	0.0109	0.2814	0.2789
7	-0.8024	1.0055	-1.1788	0.9877	-0.3369	-0.3246	0.3512	0.1541	-0.2651	-0.1919	0.1317
8	0.6500	-0.8615	1.1090	-1.0893	0.6023	0.1166	-0.4419	0.0903	0.3097	-0.0680	-0.2721
9	-0.5199	0.7249	-1.0098	1.1219	-0.8121	0.1373	0.4002	-0.3052	-0.1833	0.2665	0.1501
10	0.4118	-0.6009	0.8967	-1.1009	0.9574	-0.3919	-0.2557	0.4299	-0.0263	-0.3171	0.0714

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	454277-09	924641-09	531036-09	866696-09	154802-08	720697-08	202842-07	294987-07	211203-07	580145-08
1	144010 01	689050 00	-159948 00	693542-01	-357486-01	157239-01	-604732-01	-164581 00	-297580 00	-246871 00	-905521-01
2	564774 00	120277 01	312755 00	-196504 00	124949 00	-452040-01	459727 00	138865 01	244112 01	202624 01	727805 00
3	378101-02	832903 00	103458 01	-583502-01	-779534-01	-670376-01	-192800 01	-633213 01	-108395 02	-897686 01	-314648 01
4	-657875-01	243050 00	105389 01	662295 00	-294390 00	626505 00	573370 01	197856 02	330957 02	272471 02	929218 01
5	261232-01	240235-01	591998 00	112286 01	267039 00	-156801 01	-130938 02	-456446 02	-748803 02	-609871 02	-201708 02
6	-366542-01	-606597-01	109106 00	853007 00	818107 00	218757 01	234348 02	797767 02	128683 03	102980 03	329009 02
7	570317-01	524785-01	521995-01	431658 00	117444 01	-274738 01	-321745 02	-105382 03	-166984 03	-130070 03	-399509 02
8	-543387-01	-463647-01	-595692-01	663445-01	584405 00	441523 01	319826 02	102276 03	157636 03	117957 03	346286 02
9	322405-01	298038-01	315257-01	168710-01	364200 00	-156716 01	-213478 02	-677815 02	-985924 02	-695798 02	-193819 02
10	-994330-02	-988602-02	-949192-02	-105535-01	322449-01	170145 01	986139 01	245699 02	314168 02	203761 02	533670 01

$\gamma = 0.7300$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.4600	0.8834	0.2920	0.0527	0.0000	-0.0019	0.0000	0.0002	0.0000	-0.0000	0.0000
	2	1.5987	-1.2127	0.3148	0.4564	0.2030	0.0426	0.0000	-0.0018	0.0000	0.0002	0.0000
	3	-1.5561	1.3647	-0.7146	-0.1812	0.3603	0.3401	0.1451	0.0304	0.0000	-0.0013	0.0000
	4	1.4199	-1.3878	0.9930	-0.1659	-0.4188	0.0891	0.3542	0.2641	0.1047	0.0212	0.0000
	5	-1.2438	1.3266	-1.1582	0.5004	0.2652	-0.3568	-0.1888	0.2140	0.3241	0.2057	0.0759
	6	1.0593	-1.2157	1.2277	-0.7762	-0.0070	0.4368	-0.0942	-0.3190	-0.0149	0.2698	0.2841
	7	-0.8838	1.0806	-1.2234	0.9749	-0.2816	-0.3583	0.3258	0.1852	-0.2453	-0.2107	0.1077
	8	0.7258	-0.9384	1.1672	-1.0958	0.5516	0.1726	-0.4398	0.0459	0.3168	-0.0329	-0.2700
	9	-0.5886	0.8003	-1.0778	1.1480	-0.7744	0.0685	0.4277	-0.2664	-0.2197	0.2418	0.1793
	10	0.4727	-0.6724	0.9706	-1.1448	0.9384	-0.3212	-0.3108	0.4128	0.0276	-0.3212	0.0278

U^{-1}												
0	100000 01	213040-09	292709-09	589083-09	532884-09	114545-08	649102-08	201936-07	319005-07	253429-07	813582-08
1	146014 01	680385 00	-158507 00	694734-01	-361707-01	146951-01	-779260-01	-222537 00	-392731 00	-322587 00	-115441 00
2	582011 00	121164 01	297475 00	-189976 00	121843 00	-324141-01	591294 00	183537 01	316237 01	259520 01	910382 00
3	501110-02	857207 00	103023 01	-721655-01	-634686-01	-126567 00	-246889 01	-817645 01	-137685 02	-112583 02	-385853 01
4	-729849-01	252330 00	107159 01	638461 00	-304285 00	786167 00	727484 01	249732 02	412023 02	334527 02	111700 02
5	331515-01	303104-01	622419 00	113243 01	249998 00	-187228 01	-163543 02	-563570 02	-913344 02	-732942 02	-237687 02
6	-465707-01	-720916-01	108755 00	876228 00	778761 00	267913 01	286401 02	964157 02	153699 03	121129 03	380051 02
7	693784-01	634574-01	638734-01	460091 00	122019 01	-342088 01	-383720 02	-124708 03	-195162 03	-149718 03	-452402 02
8	-646212-01	-549235-01	-704662-01	696011-01	592280 00	499125 01	373316 02	118445 03	180109 03	132851 03	384430 02
9	375548-01	344489-01	369578-01	188673-01	399271 00	-190706 01	-245288 02	-766107 02	-109987 03	-766657 02	-210959 02
10	-113028-01	-111579-01	-108513-01	-115888-01	333236-01	187420 01	108655 02	269266 02	341665 02	219617 02	569600 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.7400$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.4800	0.8798	0.2960	0.0545	0.0000	-0.0021	0.0000	0.0002	0.0000	-0.0000	0.0000
	2	1.6428	-1.2215	0.2959	0.4571	0.2086	0.0447	0.0000	-0.0020	0.0000	0.0002	0.0000
	3	-1.6209	1.3912	-0.6954	-0.2035	0.3481	0.3446	0.1512	0.0324	0.0000	-0.0015	0.0000
	4	1.4993	-1.4326	0.9838	-0.1293	-0.4255	0.0659	0.3487	0.2710	0.1105	0.0229	0.0000
	5	-1.3314	1.3870	-1.1652	0.4607	0.2958	-0.3388	-0.2093	0.1948	0.3243	0.2139	0.0812
	6	1.1495	-1.2876	1.2531	-0.7437	-0.0560	0.4400	-0.0597	-0.3207	-0.0405	0.2567	0.2886
	7	-0.9721	1.1596	-1.2665	0.9572	-0.2240	-0.3885	0.2967	0.2142	-0.2227	-0.2274	0.0828
	8	0.8093	-1.0204	1.2254	-1.0970	0.4960	0.2267	-0.4318	0.0008	0.3191	0.0027	-0.2643
	9	-0.6653	0.8818	-1.1473	1.1694	-0.7300	-0.0012	0.4487	-0.2231	-0.2520	0.2125	0.2052
	10	0.5416	-0.7507	1.0474	-1.1850	0.9113	-0.2461	-0.3609	0.3876	0.0809	-0.3181	-0.0165

U^{-1}												
0	100000 01	-254807-09	191785-09	593828-09	719897-09	216457-08	121514-07	356511-07	529893-07	386513-07	109921-07
1	148019 01	671614 00	-156902 00	694993-01	-365084-01	130937-01	-101390 00	-300749 00	-519540 00	-422334 00	-147610 00
2	599508 00	122004 01	282161 00	-183278 00	118280 00	-154716-01	765840 00	242601 01	410562 01	333033 01	114210 01
3	664947-02	882178 00	102543 01	-851396-01	-483318-01	-201468 00	-317426 01	-105643 02	-175237 02	-141470 02	-474538 01
4	-814673-01	261241 00	108807 01	613365 00	-314838 00	984720 00	924459 01	315517 02	513884 02	411532 02	134657 02
5	421404-01	381893-01	655186 00	114159 01	236948 00	-225204 01	-204312 02	-696671 02	-111593 03	-882643 02	-280877 02
6	-591285-01	-858784-01	106560 00	898350 00	731928 00	328415 01	350067 02	116672 03	183873 03	142776 03	440247 02
7	845425-01	766343-01	780148-01	490605 00	127081 01	-421750 01	-457964 02	-147751 03	-228454 03	-172707 03	-513730 02
8	-769859-01	-648736-01	-831839-01	726721-01	595791 00	566147 01	436123 02	137304 03	206115 03	149958 03	427961 02
9	438269-01	397582-01	432557-01	211061-01	438177 00	-230005 01	-281718 02	-866723 02	-122910 03	-846684 02	-230256 02
10	-128741-01	-125047-01	-123086-01	-127232-01	341191-01	206410 01	119809 02	295507 02	372281 02	237266 02	609627 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.7500$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.5000	0.8761	0.3000	0.0562	0.0000	-0.0022	0.0000	0.0002	0.0000	-0.0000	0.0000
2	1.6875	-1.2298	0.2768	0.4575	0.2143	0.0470	0.0000	-0.0022	0.0000	0.0002	0.0000
3	-1.6875	1.4174	-0.6750	-0.2254	0.3352	0.3487	0.1574	0.0346	0.0000	-0.0016	0.0000
4	1.5820	-1.4776	0.9725	-0.0922	-0.4306	0.0423	0.3422	0.2777	0.1166	0.0248	0.0000
5	-1.4238	1.4486	-1.1696	0.4187	0.3247	-0.3186	-0.2287	0.1747	0.3235	0.2221	0.0868
6	1.2459	-0.4756	1.2761	-0.7073	-0.1047	0.4396	-0.0246	-0.3197	-0.0659	0.2422	0.2923
7	-1.0679	1.2425	-1.3078	0.9343	-0.1644	-0.4147	0.2641	0.2408	-0.1975	-0.2418	0.0571
8	0.9011	-1.1076	1.2829	-1.0926	0.4359	0.2783	-0.4178	-0.0444	0.3165	0.0383	-0.2549
9	-0.7508	0.9697	-1.2177	1.1852	-0.6786	-0.0712	0.4626	-0.1756	-0.2796	0.1790	0.2273
10	0.6195	-0.8365	1.1269	-1.2207	0.8757	-0.1675	-0.4049	0.3545	0.1326	-0.3074	-0.0606

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	-314776-08	981222-09	-360246-10	104484-08	176022-08	494038-08	152533-07	254693-07	219406-07	790341-08
1	170082 01	751334 00	-175864 00	787094-01	-416596-01	121635-01	-150800 00	-460710 00	-780953 00	-628068 00	-214614 00
2	-887314 00	563280 00	422371 00	-246061 00	151046 00	-386757-02	113131 01	361609 01	603353 01	483870 01	162719 01
3	618436 01	363598 01	381749 00	188611 00	-183609 00	-252065 00	-464356 01	-153374 02	-251902 02	-200993 02	-663432 01
4	-178332 02	-756788 01	293737 01	-234152 00	107933 00	110613 01	133404 02	447266 02	723807 02	573009 02	185248 02
5	385603 02	170586 02	-329049 01	293251 01	-714138 00	-245102 01	-289543 02	-966865 02	-154307 03	-120771 03	-381569 02
6	-646212 02	-286161 02	677558 01	-206794 01	225722 01	356591 01	485341 02	158886 03	250033 03	192536 03	593026 02
7	825933 02	365328 02	-843367 01	434094 01	-692921 00	-457135 01	-620267 02	-197655 03	-305820 03	-230193 03	-689310 02
8	-769868 02	-340453 02	785212 01	-348296 01	247738 01	589251 01	578196 02	180196 03	271634 03	198094 03	574933 02
9	488298 02	215940 02	-499281 01	228098 01	-713331 00	-240518 01	-366781 02	-111391 03	-160029 03	-111766 03	-313660 02
10	-199518 02	-882133 01	204736 01	-936582 00	522896 00	213045 01	149913 02	378850 02	498090 02	330657 02	906119 01

$\gamma = 0.7600$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.5200	0.8724	0.3040	0.0581	0.0000	-0.0024	0.0000	0.0002	0.0000	-0.0000	0.0000
2	1.7328	-1.2378	0.2574	0.4576	0.2200	0.0493	0.0000	-0.0024	0.0000	0.0003	0.0000
3	-1.7559	1.4431	-0.6534	-0.2469	0.3216	0.3525	0.1637	0.0368	0.0000	-0.0018	0.0000
4	1.6681	-1.5226	0.9590	-0.0545	-0.4340	0.0185	0.3348	0.2842	0.1230	0.0268	0.0000
5	-1.5213	1.5113	-1.1711	0.3746	0.3518	-0.2963	-0.2467	0.1536	0.3218	0.2303	0.0928
6	1.3489	-1.4389	1.2961	-0.6669	-0.1530	0.4353	0.0109	-0.3159	-0.0909	0.2263	0.2952
7	-1.1716	1.3293	-1.3469	0.9060	-0.1031	-0.4367	0.2283	0.2644	-0.1698	-0.2536	0.0308
8	1.0018	-1.2002	1.3394	-1.0819	0.3714	0.3267	-0.3978	0.1029	0.3088	0.0735	-0.2418
9	-0.8458	1.0644	-1.2886	1.1949	-0.6204	-0.1405	0.4691	-0.1247	-0.3018	0.1417	0.2449
10	0.7072	-0.9301	1.2087	-1.2510	0.8314	-0.0862	-0.4417	0.3138	0.1815	-0.2892	-0.1033

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	-415449-11	434427-09	608595-09	406276-09	295802-09	116646-08	101717-08	-184907-09	-926620-09	-563795-09
1	152000 01	653440 00	-153518 00	676250-01	-409684-01	259078-01	176591-01	665673-01	153576-01	-436649-01	-458231-01
2	637978 00	123775 01	254006 00	-156883 00	140867 00	-104991 00	-165670 00	-441309 00	-117287 00	309932 00	309896 00
3	110193-03	924265 00	100413 01	-159736 00	-143720 00	163053 00	737937 00	153159 01	480514 00	-112340 01	-107530 01
4	-709904-01	305942 00	114627 01	704167 00	213496-01	-873245-01	-200208 01	-354689 01	-135283 01	256311 01	238404 01
5	133313-03	192379-03	666986 00	856845 00	-525833 00	806409-01	347036 01	579694 01	281805 01	-359697 01	-340245 01
6	126630-01	-273928-01	193561 00	141581 01	179992 01	-429015 00	-354060 01	-642237 01	-445016 01	188822 01	247146 01
7	-212346-02	-189976-02	-197949-02	-939645-02	-233961-01	105562 00	109992 01	350196 01	529329 01	389298 01	112429 01
8	797408-03	724418-02	-143999-01	568132 00	180590 01	184704 01	233565 01	257775 01	-456430 01	-104972 02	-509999 01
9	-291613-02	-282617-02	122596-02	-252351 00	-164532 00	-145612 00	-452465 01	-746610 01	259613 01	114010 02	566306 01
10	132905-02	191785-03	642852-03	650526-01	234557 00	160060 01	520799 01	583691 01	-748006 00	-535445 01	-255995 01

$\gamma = 0.7700$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.5400	0.8686	0.3080	0.0599	0.0000	-0.0026	0.0000	0.0002	0.0000	-0.0000	0.0000
	2	1.7787	-1.2454	0.2377	0.4574	0.2259	0.0518	0.0000	-0.0026	0.0000	0.0003	0.0000
	3	-1.8261	1.4684	-0.6306	-0.2679	0.3073	0.3560	0.1703	0.0393	0.0000	-0.0020	0.0000
	4	1.7577	-1.5677	0.9431	-0.0164	-0.4355	-0.0055	0.3264	0.2905	0.1296	0.0290	0.0000
	5	-1.6240	1.5750	-1.1696	0.3285	0.3769	-0.2719	-0.2632	0.1316	0.3190	0.2384	0.0991
	6	1.4590	-1.5181	1.3130	-0.6226	-0.2003	0.4271	0.0464	-0.3092	-0.1153	0.2089	0.2972
	7	-1.2839	1.4201	-0.8730	0.8721	-0.0405	-0.4539	0.1894	0.2848	-0.1398	-0.2625	0.0041
	8	1.1122	-1.2983	1.3943	-1.0645	0.3029	0.3712	-0.3717	-0.1326	0.2959	0.1076	-0.2249
	9	-0.9514	1.1661	-1.3594	1.1976	-0.5554	-0.2081	0.4675	-0.0711	-0.3180	0.1013	0.2576
	10	0.8059	-1.0320	1.2922	-1.2749	0.7779	-0.0031	-0.4703	0.2661	0.2262	-0.2637	-0.1436

U^{-1}												
0	100000 01	183192-07	368765-08	-197412-08	196939-08	-210903-08	-933441-08	-280642-07	-317623-07	-161809-07	-134658-08
1	160436 01	766100 00	-127978 00	531358-01	-266692-01	997613-02	-652318-01	-191517 00	-327088 00	-260850 00	-892400-01
2	168311 00	320011 00	607543-01	-418729-01	268172-01	194655-01	444299 00	145451 01	235481 01	184369 01	594017 00
3	198994 01	471625 01	172238 01	-609023 00	317944 00	-342487 00	-167817 01	-592270 01	-906332 01	-689193 01	-204760 01
4	-564065 01	-102166 02	-867432 00	190283 01	-123699 01	129984 01	459637 01	165657 02	239076 02	173714 02	460291 01
5	115148 02	218047 02	489988 01	-167396 01	205556 01	-274007 01	-987620 01	-342816 02	-464764 02	-314762 02	-698704 01
6	-180697 02	-342758 02	-639927 01	541944 01	-232896 01	398478 01	168544 02	538458 02	678511 02	410202 02	649345 01
7	214721 02	406682 02	783983 01	-470548 01	486273 01	-514663 01	-221321 02	-639517 02	-729252 02	-359841 02	-152630 01
8	-186673 02	-353512 02	-683110 01	469101 01	-238461 01	627608 01	210915 02	556065 02	535640 02	162411 02	-518024 01
9	109438 02	207357 02	399566 01	-267538 01	231609 01	-262489 01	-140061 02	-326199 02	-216990 02	311040 01	783000 01
10	-341103 01	-646696 01	-124309 01	827063 00	-506479 00	236441 01	721343 01	101752 02	140447 01	-670751 01	-434372 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.7800$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.5600	0.8647	0.3120	0.0618	0.0000	-0.0027	0.0000	0.0003	0.0000	-0.0000	0.0000
	2	1.8252	-1.2525	0.2178	0.4568	0.2318	0.0543	0.0000	-0.0029	0.0000	0.0003	0.0000
	3	-1.8982	1.4933	-0.6065	-0.2884	0.2922	0.3591	0.1770	0.0418	0.0000	-0.0023	0.0000
	4	1.8508	-1.6127	0.9249	0.0220	-0.4351	-0.0296	0.3170	0.2966	0.1364	0.0314	0.0000
	5	-1.7323	1.6396	-1.1648	0.2803	0.3998	-0.2455	-0.2781	0.1087	0.3151	0.2464	0.1057
	6	1.5764	-1.5996	1.3263	-0.5742	-0.2463	0.4148	0.0817	-0.2995	-0.1389	0.1901	0.2981
	7	-1.4052	1.5147	-1.4166	0.8323	0.0229	-0.4659	0.1479	0.3014	-0.1079	-0.2684	-0.0227
	8	1.2331	-1.4021	1.4470	-1.0400	0.2307	0.4109	-0.3397	-0.1742	0.2779	0.1401	-0.2044
	9	-1.0686	1.2750	-1.4297	1.1926	-0.4838	-0.2731	0.4577	-0.0159	-0.3275	0.0585	0.2649
	10	0.9169	-1.1426	1.3769	-1.2913	0.7153	0.0805	-0.4898	0.2121	0.2656	-0.2311	-0.1803

U^{-1}												
0	100000 01	120199-09	685484-09	650441-09	147933-09	116094-08	787485-08	220848-07	290107-07	178063-07	405485-08
1	156063 01	635432 00	-148809 00	685189-01	-366949-01	-336839-02	-306518 00	-986745 00	-160005 01	-124617 01	-400861 00
2	671907 00	124895 01	221042 00	-154395 00	980889-01	121901 00	223072 01	733860 01	117478 02	909784 01	287977 01
3	181501-01	987151 00	100062 01	-130606 00	226163-01	-748228 00	-877784 01	-292485 02	-462032 02	-355022 02	-110324 02
4	-129597 00	298749 00	114397 01	509169 00	-374460 00	238140 01	240034 02	800711 02	124778 03	948643 02	288720 02
5	972533-01	736422-01	802349 00	115534 01	245131 00	-488065 01	-491575 02	-162214 03	-249192 03	-186775 03	-555272 02
6	-131435 00	-143965 00	946211-01	100358 01	447618 00	726787 01	771998 02	249447 03	376977 03	277194 03	802380 02
7	165271 00	125287 00	139838 00	598872 00	153960 01	-900589 01	-922015 02	-290022 03	-429114 03	-307479 03	-863192 02
8	-138334 00	-969497-01	-135944 00	114980 00	552547 00	950974 01	806718 02	246716 03	353615 03	244624 03	662768 02
9	726161-01	548996-01	664414-01	146713-01	638444 00	-449391 01	-482726 02	-141362 03	-191872 03	-126471 03	-328664 02
10	-194720-01	-161597-01	-170587-01	-131633-01	341353-01	301291 01	176805 02	429112 02	526132 02	324236 02	801894 01
L \ L'	0	1	2	3	4	5	6		8	9	10

$\gamma = 0.7900$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.5800	0.8607	0.3160	0.0638	0.0000	-0.0029	0.0000	0.0003	0.0000	-0.0000	0.0000
2	1.8723	-1.2591	0.1976	0.4560	0.2378	0.0570	0.0000	-0.0031	0.0000	0.0004	0.0000
3	-1.9721	1.5175	-0.5812	-0.3084	0.2764	0.3619	0.1839	0.0446	0.0000	-0.0025	0.0000
4	1.9475	-1.6576	0.9043	0.0607	-0.4327	-0.0538	0.3066	0.3023	0.1436	0.0339	0.0000
5	-1.8462	1.7049	-1.1566	0.2302	0.4202	-0.2171	-0.2913	0.0851	0.3101	0.2542	0.1126
6	1.7016	-1.6833	1.3357	-0.5219	-0.2906	0.3984	0.1164	-0.2867	-0.1614	0.1699	0.2979
7	-1.5363	1.6133	-1.4461	0.7865	0.0866	-0.4725	0.1040	0.3140	-0.0743	-0.2711	-0.0496
8	1.3654	-1.5116	1.4969	-1.0079	0.1555	0.4452	-0.3020	-0.2130	0.2547	0.1704	-0.1804
9	-1.1984	1.3915	-1.4985	1.1791	-0.4059	-0.3343	0.4392	0.0401	-0.3298	0.0140	0.2663
10	1.0415	-1.2624	1.4619	-1.2993	0.6434	0.1634	-0.4992	0.1526	0.2984	-0.1921	-0.2123

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	504964-09	291800-09	177250-09	668899-09	176740-08	553015-08	113527-07	123542-07	582937-08	740477-09
1	158085 01	626182 00	-146293 00	679654-01	-364761-01	-110163-01	-399812 00	-130138 01	-208961 01	-161329 01	-510764 00
2	690257 00	125447 01	205454 00	-146640 00	920182-01	178795 00	286625 01	947676 01	150354 02	115352 02	359543 01
3	236435-01	101642 01	994497 00	-140576 00	406001-01	-959589 00	-110908 02	-369612 02	-579019 02	-440484 02	-134855 02
4	-148485 00	304298 00	115139 01	483441 00	-387206 00	289839 01	297724 02	990133 02	153059 03	115139 03	345418 02
5	121311 00	917881-01	850331 00	115070 01	248386 00	-581918 01	-597592 02	-196305 03	-299112 03	-221712 03	-650064 02
6	-162041 00	-171190 00	808371-01	103672 01	376351 00	861842 01	918660 02	295425 03	442599 03	321713 03	918913 02
7	197294 00	149214 00	167617 00	619409 00	159333 01	-105183 02	-107360 03	-336071 03	-492494 03	-348749 03	-966561 02
8	-161381 00	-112816 00	-158340 00	135748 00	553053 00	106633 02	920050 02	279510 03	396359 03	270945 03	724997 02
9	828012-01	621496-01	763348-01	781015-02	684664 00	-512880 01	-539672 02	-156283 03	-209728 03	-136607 03	-350651 02
10	-215998-01	-178148-01	-190951-01	-118350-01	382700-01	327347 01	191512 02	461073 02	559371 02	340595 02	831478 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.8000$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.6000	0.8567	0.3200	0.0658	0.0000	-0.0032	0.0000	0.0003	0.0000	-0.0000	0.0000
2	1.9200	-1.2654	0.1772	0.4547	0.2438	0.0599	0.0000	-0.0034	0.0000	0.0004	0.0000
3	-2.0480	1.5412	-0.5547	-0.3278	0.2599	0.3642	0.1910	0.0475	0.0000	-0.0028	0.0000
4	2.0480	-1.7023	0.8811	0.0995	-0.4283	-0.0779	0.2950	0.3077	0.1510	0.0366	0.0000
5	-1.9660	1.7710	-1.1447	0.1784	0.4379	-0.1868	-0.3024	0.0608	0.3037	0.2618	0.1199
6	1.8350	-1.7690	1.3408	-0.4657	-0.3328	0.3777	0.1502	-0.2709	-0.1826	0.1483	0.2964
7	-1.6777	1.7156	-1.4713	0.7346	0.1499	-0.4732	0.0584	0.3222	-0.0393	-0.2703	-0.0761
8	1.5100	-1.6268	1.5431	-0.9677	0.0778	0.4733	-0.2589	-0.2482	0.2266	0.1978	-0.1532
9	-1.3421	1.5157	-1.5649	1.1564	-0.3223	-0.3905	0.4120	0.0958	-0.3246	-0.0312	0.2616
10	1.1811	-1.3919	1.5465	-1.2975	0.5624	0.2440	-0.4979	0.0889	0.3234	-0.1472	-0.2384

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	528025-09	711869-09	327646-09	755284-09	-348211-08	-424667-07	-135058-06	-197411-06	-139021-06	-382439-07
1	160118 01	616892 00	-143534 00	673554-01	-359349-01	-220446-01	-533311 00	-175116 01	-278415 01	-212888 01	-662716 00
2	708370 00	125902 01	189511 00	-139236 00	841059-01	257746 00	376359 01	124877 02	196341 02	149117 02	457300 01
3	314017-01	104774 01	989299 00	-147856 00	640788-01	-124709 01	-143096 02	-476610 02	-740396 02	-557335 02	-167997 02
4	-172986 00	306484 00	115401 01	452502 00	-413528 00	359635 01	376821 02	124927 03	191575 03	142550 03	421377 02
5	154331 00	116764 00	906354 00	115339 01	280493 00	-707906 01	-740844 02	-242355 03	-366354 03	-268549 03	-776494 02
6	-203955 00	-207400 00	582764-01	105649 01	263321 00	104032 02	111419 03	356856 03	530267 03	381160 03	107463 03
7	240334 00	181428 00	204722 00	655434 00	168854 01	-124691 02	-127342 03	-397081 03	-576873 03	-404061 03	-110648 03
8	-192138 00	-134227 00	-187580 00	145745 00	518789 00	121410 02	106803 03	322781 03	453583 03	306876 03	812214 02
9	965007-01	719138-01	893872-01	721995-02	751410 00	-593236 01	-613198 02	-176067 03	-234240 03	-151168 03	-384251 02
10	-245367-01	-200616-01	-218519-01	-124550-01	377294-01	358120 01	210233 02	504529 02	608426 02	367653 02	889777 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.8100$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.6200	0.8525	0.3240	0.0679	0.0000	-0.0034	0.0000	0.0004	0.0000	-0.0001	0.0000
	2	1.9683	-1.2711	0.1565	0.4531	0.2499	0.0628	0.0000	-0.0038	0.0000	0.0005	0.0000
	3	-2.1257	1.5642	-0.5268	-0.3464	0.2426	0.3660	0.1982	0.0506	0.0000	-0.0031	0.0000
	4	2.1523	-1.7465	0.8552	0.1382	-0.4218	-0.1018	0.2824	0.3127	0.1587	0.0395	0.0000
	5	-2.0920	1.8375	-1.1290	0.1250	0.4527	-0.1549	-0.3114	0.0359	0.2961	0.2692	0.1276
	6	1.9770	-1.8565	1.3412	-0.4056	-0.3724	0.3529	0.1827	-0.2520	-0.2023	0.1254	0.2936
	7	-1.8301	1.8216	-1.4916	0.6764	0.2123	-0.4677	0.0115	0.3257	-0.0034	-0.2659	-0.1020
	8	1.6678	-1.7477	1.5850	-0.9192	-0.0017	0.4945	-0.2108	-0.2791	0.1938	0.2217	-0.1229
	9	-1.5008	1.6477	-1.6282	1.1237	-0.2335	-0.4406	0.3762	0.1497	-0.3115	-0.0760	0.2506
	10	1.3374	-1.5314	1.6296	-1.2850	0.4727	0.3209	-0.4852	0.0222	0.3395	-0.0976	-0.2576

U^{-1}												
0	100000 01	436836-11	236931-09	460512-09	575370-09	-103462-08	-124658-07	-336168-07	-414625-07	-252016-07	-625492-08
1	162118 01	607412 00	-140467 00	666324-01	-350850-01	-369814-01	-715714 00	-236624 01	-372786 01	-282309 01	-864606 00
2	729251 00	126363 01	172836 00	-131811 00	745769-01	361254 00	496834 01	165278 02	257665 02	193730 02	584850 01
3	303351-01	107716 01	986363 00	-153997 00	918536-01	-161568 01	-185477 02	-617322 02	-951341 02	-708678 02	-210421 02
4	-175007 00	315516 00	114866 01	420798 00	-449544 00	447652 01	478768 02	158290 03	240874 03	177323 03	516711 02
5	143876 00	129335 00	975694 00	115442 01	332630 00	-864500 01	-921740 02	-300462 03	-450706 03	-326809 03	-932250 02
6	-183546 00	-225282 00	202855-01	107654 01	123740 00	125761 02	135608 03	432813 03	638047 03	453685 03	126303 03
7	217282 00	192945 00	257500 00	691122 00	180626 01	-147048 02	-151576 03	-471020 03	-678604 03	-470318 03	-127297 03
8	-172769 00	-139157 00	-227954 00	158382 00	466453 00	138664 02	124400 03	374191 03	521312 03	349211 03	914502 02
9	855614-01	733393-01	107426 00	536429-02	828856 00	-685801 01	-698780 02	-199137 03	-262806 03	-168115 03	-423302 02
10	-215245-01	-202677-01	-257108-01	-128062-01	353969-01	392298 01	231632 02	554774 02	665529 02	399333 02	958499 01
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.8200$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.6400	0.8483	0.3280	0.0700	0.0000	-0.0036	0.0000	0.0004	0.0000	-0.0001	0.0000
	2	2.0172	-1.2763	0.1355	0.4511	0.2562	0.0659	0.0000	-0.0041	0.0000	0.0005	0.0000
	3	-2.2055	1.5865	-0.4977	-0.3644	0.2245	0.3674	0.2057	0.0539	0.0000	-0.0035	0.0000
	4	2.2606	-1.7903	0.8266	0.1769	-0.4130	-0.1256	0.2685	0.3172	0.1667	0.0427	0.0000
	5	-2.2244	1.9044	-1.1091	0.0701	0.4643	-0.1212	-0.3182	0.0105	0.2871	0.2763	0.1357
	6	2.1281	-1.9458	1.3365	-0.3418	-0.4089	0.3239	0.2134	-0.2301	-0.2202	0.1013	0.2893
	7	-1.9943	1.9311	-1.5064	0.6119	0.2731	-0.4557	-0.0362	0.3240	0.0329	-0.2576	-0.1270
	8	1.8398	-1.8743	1.6216	-0.8619	-0.0821	0.5079	-0.1582	-0.3047	0.1567	0.2415	-0.0900
	9	-1.6761	1.7878	-1.6871	1.0802	-0.1403	-0.4832	0.3319	0.2008	-0.2905	-0.1194	0.2331
	10	1.5119	-1.6812	1.7101	-1.2604	0.3747	0.3922	-0.4606	-0.0458	0.3458	-0.0444	-0.2689

U^{-1}												
0	100000 01	234773-09	532005-09	104364-08	921360-09	461115-09	-687685-08	-319920-07	-557568-07	-438504-07	-130671-07
1	164165 01	598070 00	-137117 00	658419-01	-338892-01	-569328-01	-963558 00	-320443 01	-500820 01	-375783 01	-113333 01
2	747443 00	126607 01	155694 00	-124708 00	633376-01	495183 00	657157 01	219158 02	339122 02	252551 02	751235 01
3	405792-01	111277 01	984598 00	-157833 00	123928 00	-208133 01	-240649 02	-800836 02	-122542 03	-903890 02	-264607 02
4	-205355 00	311254 00	113840 01	385697 00	-494924 00	556932 01	608658 02	200875 03	303563 03	221229 03	636010 02
5	184290 00	166632 00	105195 01	115849 01	403101 00	-105545 02	-114705 03	-372985 03	-555593 03	-398770 03	-112310 03
6	-232942 00	-276436 00	-233375-01	109039 01	-384498-01	151676 02	165068 03	525511 03	769093 03	541328 03	148912 03
7	266444 00	237322 00	315055 00	732877 00	194095 01	-174763 02	-180434 03	-559196 03	-799494 03	-548636 03	-146861 03
8	-207018 00	-167470 00	-270874 00	159154 00	403457 00	452402 02	[illegible]	434049 03	599939 03	398143 03	103217 03
9	100440 00	856873-01	126072 00	435971-02	914073 00	-789677 01	-795850 02	-225335 03	-295184 03	-187259 03	-467254 02
10	-246554-01	-230173-01	-295544-01	-133856-01	323430-01	429395 01	255225 02	610361 02	728661 02	434266 02	103403 02
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.8300$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.6600	0.8439	0.3320	0.0722	0.0000	-0.0039	0.0000	0.0005	0.0000	-0.0001	0.0000
2	2.0667	-1.2811	0.1143	0.4488	0.2624	0.0692	0.0000	-0.0045	0.0000	0.0006	0.0000
3	-2.2871	1.6081	-0.4672	-0.3816	0.2057	0.3682	0.2133	0.0574	0.0000	-0.0039	0.0000
4	2.3729	-1.8335	0.7952	0.2153	-0.4020	-0.1490	0.2535	0.3213	0.1749	0.0461	0.0000
5	-2.3634	1.9714	-1.0848	0.0139	0.4724	-0.0862	-0.3224	-0.0153	0.2766	0.2830	0.1441
6	2.2886	-2.0366	1.3261	-0.2744	-0.4419	0.2908	0.2419	-0.2052	-0.2360	0.0760	0.2835
7	-2.1709	2.0440	-1.5149	0.5411	0.3315	-0.4370	-0.0839	0.3171	0.0691	-0.2455	-0.1506
8	2.0271	-2.0065	1.6519	-0.7955	-0.1626	0.5128	-0.1019	-0.3244	0.1157	0.2564	-0.0549
9	-1.8694	1.9359	-1.7406	1.0253	-0.0437	-0.5170	0.2795	0.2475	-0.2615	-0.1601	0.2092
10	1.7068	-1.8417	1.7864	-1.2225	0.2693	0.4562	-0.4240	-0.1134	0.3415	0.0109	-0.2715

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	245944-09	641801-09	317960-09	100794-08	138802-08	-318992-09	-138305-07	-326159-07	-297100-07	-969274-08
1	166180 01	588792 00	-133396 00	649937-01	-322607-01	-833962-01	-129994 01	-434698 01	-674796 01	-501956 01	-149227 01
2	768316 00	126689 01	137581 00	-118014 00	499307-01	667896 00	870382 01	291079 02	447536 02	330323 02	969085 01
3	426652-01	115216 01	985714 00	-159208 00	161656 00	-266828 01	-312441 02	-104042 03	-158223 03	-115639 03	-334063 02
4	-215650 00	300405 00	111931 01	347248 00	-552528 00	692104 01	773922 02	255237 03	383365 03	276770 03	785681 02
5	186947 00	215252 00	114152 01	116515 01	496287 00	-128722 02	-142727 03	-463487 03	-686110 03	-487782 03	-135743 03
6	-229918 00	-340883 00	-806246-01	109904 01	-227873 00	182428 02	200879 03	638554 03	928438 03	647312 03	176074 03
7	262029 00	292478 00	385143 00	779108 00	209644 01	-205908 02	-214714 03	-664215 03	-943066 03	-641191 03	-169849 03
8	-202162 00	-201838 00	-321790 00	179681 00	319668 00	180803 02	168632 03	503614 03	691082 03	454624 03	116732 03
9	968081-01	100214 00	147828 00	329243-02	100823 01	-905669 01	-905604 02	-255007 03	-331784 03	-208822 03	-516530 02
10	-234697-01	-261464-01	-339541-01	-139555-01	283677-01	469546 01	281155 02	671639 02	798148 02	472566 02	111641 02

$\gamma = 0.8400$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.6800	0.8395	0.3360	0.0745	0.0000	-0.0042	0.0000	0.0005	0.0000	-0.0001	0.0000
2	2.1168	-1.2853	0.0928	0.4460	0.2688	0.0726	0.0000	-0.0050	0.0000	0.0007	0.0000
3	-2.3708	1.6287	-0.4355	-0.3979	0.1861	0.3685	0.2211	0.0612	0.0000	-0.0044	0.0000
4	2.4894	-1.8760	1.2538	0.2532	-0.3886	-0.1720	0.2372	0.3247	0.1835	0.0498	0.0000
5	-2.5092	2.0383	-1.0560	-0.0433	0.4769	-0.0498	-0.3239	-0.0413	0.2645	0.2893	0.1530
6	2.4591	-2.1286	1.3097	-0.2036	-0.4707	0.2535	0.2677	-0.1773	-0.2494	0.0497	0.2759
7	-2.3607	2.1599	-1.5163	0.4640	0.3866	-0.4113	-0.1309	0.3045	0.1047	-0.2293	-0.1726
8	2.2309	-2.1441	1.6749	-0.7198	-0.2420	0.5086	-0.0426	-0.3373	0.0716	0.2658	-0.0182
9	-2.0822	2.0921	-1.7872	0.9583	0.0552	-0.5408	0.2197	0.2884	-0.2249	-0.1969	0.1791
10	1.9239	-2.0130	1.8572	-1.1704	0.1575	0.5107	-0.3754	-0.1785	0.3259	0.0667	-0.2647

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	313852-09	192509-09	298315-09	-339513-10	105236-07	109856-06	342456-06	488053-06	333098-06	887048-07
1	169400 01	598130 00	-127500 00	624941-01	-296070-01	-105310 00	-158810 01	-534182 01	-825449 01	-609651 01	-179084 01
2	773059 00	124482 01	116153 00	-110170 00	333227-01	875094 00	113488 02	380841 02	582451 02	426383 02	123496 02
3	-212146-01	107007 01	979113 00	-146138 00	202952 00	-349417 01	-417311 02	-139220 03	-210689 03	-152729 03	-435994 02
4	-178965-01	663805 00	112476 01	270144 00	-614633 00	885442 01	101886 03	336384 03	503031 03	360325 03	101209 03
5	605463-02	-988754-01	121240 01	120981 01	605514 00	-159344 02	-180961 03	-587958 03	-866326 03	-611011 03	-168331 03
6	-122570 00	-147775 00	-129143 00	107595 01	-440239 00	220629 02	246817 03	784702 03	113508 04	785003 03	211478 03
7	-544101 00	-103442 01	339925 00	954896 00	223742 01	-251560 02	-268051 03	-831812 03	-117878 04	-798374 03	-210718 03
8	-327388 00	-379361 00	-394615 00	201345 00	217679 00	205150 02	194870 03	580133 03	790221 03	515090 03	130890 03
9	-309541 00	-564806 00	109440 00	626750-01	109357 01	-108239 02	-109145 03	-309382 03	-404959 03	-256398 03	-639257 02
10	-359078-01	-440724-01	-403035-01	-132549-01	230429-01	511840 01	308241 02	734516 02	867535 02	509385 02	119132 02

$\gamma = 0.8500$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.7000	0.8350	0.3400	0.0768	0.0000	-0.0045	0.0000	0.0006	0.0000	-0.0001	0.0000
2	2.1675	-1.2889	0.0711	0.4427	0.2752	0.0762	0.0000	-0.0055	0.0000	0.0008	0.0000
3	-2.4565	1.6485	-0.4023	-0.4132	0.1656	0.3682	0.2291	0.0652	0.0000	-0.0049	0.0000
4	2.6100	-1.9175	0.7237	0.2906	-0.3727	-0.1944	0.2197	0.3276	0.1924	0.0539	0.0000
5	-2.6622	2.1050	-1.0223	-0.1013	0.4774	-0.0123	-0.3226	-0.0675	0.2508	0.2950	0.1624
6	2.6401	-2.2215	1.2867	-0.1297	-0.4949	0.2124	0.2905	-0.1467	-0.2600	0.0225	0.2665
7	-2.5646	2.2786	-1.5099	0.3809	0.4376	-0.3786	-0.1765	0.2862	0.1391	-0.2091	-0.1925
8	2.4525	-2.2868	1.6895	-0.6348	-0.3192	0.4947	0.0185	-0.3425	0.0250	0.2693	0.0196
9	-2.3162	2.2562	-1.8255	0.8786	0.1550	-0.5532	0.1533	0.3220	-0.1811	-0.2284	0.1433
10	2.1656	-2.1953	1.9205	-1.1027	0.0407	0.5539	-0.3152	-0.2391	0.2987	0.1210	-0.2480

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	-154468-09	-514595-11	455392-09	193657-09	122634-07	111320-06	325326-06	438034-06	282542-06	708998-07
1	170356 01	570804 00	-124478 00	633243-01	-272930-01	-164142 00	-237730 01	-804434 01	-123653 02	-905956 01	-262541 01
2	802429 00	126156 01	967116-01	-107093 00	146802-01	117248 01	152962 02	515581 02	785295 02	570648 02	163350 02
3	772242-01	124813 01	100182 01	-151034 00	259321 00	-432504 01	-526887 02	-176259 03	-265569 03	-190995 03	-538859 02
4	-307112 00	247893 00	104446 01	254074 00	-714439 00	106187 02	125002 03	413235 03	614840 03	436628 03	121173 03
5	309433 00	362073 00	137418 01	119518 01	764081 00	-190175 02	-220577 03	-717098 03	-105106 04	-734843 03	-200138 03
6	-372596 00	-525702 00	-249408 00	109082 01	-699820 00	261136 02	296806 03	943809 03	135768 04	930848 03	248092 03
7	396568 00	446718 00	572623 00	891966 00	247712 01	-282682 02	-303243 03	-937242 03	-131535 04	-879661 03	-228604 03
8	-291853 00	-294295 00	-452599 00	197150 00	105219 00	234465 02	227732 03	677492 03	918279 03	594585 03	149969 03
9	134180 00	137360 00	202213 00	162821-02	122516 01	-117636 02	-116788 03	-326170 03	-419323 03	-260077 03	-632720 02
10	-309786-01	-337192-01	-446204-01	-151181-01	175276-01	559341 01	340478 02	812296 02	956978 02	559366 02	130095 02

$\gamma = 0.8600$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.7200	0.8303	0.3440	0.0792	0.0000	-0.0048	0.0000	0.0007	0.0000	-0.0001	0.0000
2	2.2188	-1.2920	0.0491	0.4390	0.2818	0.0799	0.0000	-0.0060	0.0000	0.0009	0.0000
3	-2.5442	1.6673	-0.3678	-0.4276	0.1444	0.3672	0.2373	0.0695	0.0000	-0.0055	0.0000
4	2.7350	-1.9580	0.6833	0.3272	-0.3544	-0.2160	0.2008	0.3297	0.2016	0.0582	0.0000
5	-2.8225	2.1711	-0.9835	-0.1598	0.4736	0.0260	-0.3182	-0.0936	0.2354	0.3000	0.1721
6	2.8320	-2.3151	1.2567	-0.0530	-0.5138	0.1676	0.3095	-0.1135	-0.2676	-0.0054	0.2550
7	-2.7834	2.3997	-1.4949	0.2918	0.4834	-0.3387	-0.2196	0.2620	0.1714	-0.1848	-0.2099
8	2.6930	-2.4343	1.6943	-0.5402	-0.3928	0.4704	0.0805	-0.3395	-0.0231	0.2661	0.0575
9	-2.5733	2.4279	-1.8537	0.7859	0.2540	-0.5530	0.0814	0.3467	-0.1307	-0.2532	0.1023
10	2.4343	-2.3884	1.9742	-1.0185	-0.0794	0.5835	-0.2442	-0.2926	0.2601	0.1716	-0.2214

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	-501716-10	104978-08	831701-09	105751-08	366291-08	291997-07	878621-07	120347-06	777020-07	192289-07
1	172562 01	562064 00	-120648 00	623512-01	-223825-01	-244889 00	-347500 01	-118207 02	-180762 02	-131326 02	-375349 01
2	813294 00	125578 01	826772-01	-101979 00	-165781-01	166415 01	218914 02	740941 02	112349 03	809839 02	228895 02
3	116356 00	130249 01	987274 00	-145098 00	349445 00	-590326 01	-736863 02	-247361 03	-371281 03	-265007 03	-739204 02
4	-400502 00	213141 00	105690 01	208862 00	-885704 00	140783 02	170675 03	566150 03	839727 03	592233 03	162740 03
5	444700 00	446187 00	140070 01	120118 01	104812 01	-246500 02	-293800 03	-958867 03	-140202 04	-974409 03	-263230 03
6	-531741 00	-625280 00	-210987 00	109737 01	-111719 01	331265 02	385354 03	123120 04	176828 04	120675 04	319664 03
7	542919 00	523363 00	546212 00	934543 00	282795 01	-348813 02	-383496 03	-119194 04	-167199 04	-111503 04	-288706 03
8	-388076 00	-335378 00	-433460 00	221876 00	-113375 00	279457 02	280272 03	838919 03	113857 04	737017 03	185762 03
9	174575 00	151759 00	190346 00	-736209-02	138595 01	-139151 02	-139505 03	-392379 03	-506718 03	-315328 03	-769480 02
10	-392871-01	-362194-01	-409197-01	-137684-01	232891-02	622332 01	390109 02	945334 02	112555 03	663521 02	155559 02

$\gamma = 0.8700$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.7400	0.8256	0.3480	0.0817	0.0000	-0.0052	0.0000	0.0007	0.0000	-0.0001	0.0000
2	2.2707	-1.2944	0.0269	0.4348	0.2883	0.0839	0.0000	-0.0066	0.0000	0.0010	0.0000
3	-2.6340	1.6850	-0.3320	-0.4409	0.1224	0.3654	0.2456	0.0741	0.0000	-0.0062	0.0000
4	2.8645	-1.9973	0.6398	0.3628	-0.3334	-0.2368	0.1806	0.3310	0.2112	0.0630	0.0000
5	-2.9905	2.2363	-0.9394	-0.2184	0.4652	0.0649	-0.3105	-0.1194	0.2182	0.3043	0.1824
6	3.0354	-2.4088	1.2190	0.0261	-0.5267	0.1194	0.3243	-0.0778	-0.2718	-0.0338	0.2415
7	-3.0180	2.5227	-1.4702	0.1972	0.5230	-0.2918	-0.2594	0.2319	0.2010	-0.1566	-0.2242
8	2.9540	-2.5861	1.6881	-0.4364	-0.4611	0.4354	0.1419	-0.3275	-0.0716	0.2558	0.0949
9	-2.8554	2.6069	-1.8701	0.6797	0.3503	-0.5391	0.0057	0.3611	-0.0750	-0.2701	0.0570
10	2.7327	-2.5922	2.0162	-0.9170	-0.2005	0.5976	-0.1636	-0.3366	0.2104	0.2164	-0.1851

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	466975-09	356234-09	505323-09	199755-09	147328-07	161995-06	514611-06	734350-06	498281-06	131506-06
1	174808 01	554358 00	-114806 00	620711-01	-170830-01	-337021 00	-481448 01	-165058 02	-251903 02	-181953 02	-514631 01
2	822762 00	124281 01	578868-01	-101868 00	-486375-01	220778 01	296998 02	101201 03	153164 03	109761 03	307156 02
3	159912 00	137700 01	100756 01	-122718 00	437937 00	-759104 01	-977273 02	-329978 03	-494378 03	-350803 03	-969343 02
4	-500226 00	138602 00	989119 00	131455 00	-104778 01	176560 02	221166 03	737436 03	109173 04	765478 03	208497 03
5	582812 00	591958 00	155779 01	125511 01	131081 01	-302833 02	-371839 03	-121934 04	-177933 04	-122957 04	-329459 03
6	-686148 00	-795649 00	-332675 00	104432 01	-149538 01	399123 02	476191 03	152813 04	219000 04	148637 04	390819 03
7	678213 00	659649 00	670871 00	102946 01	312894 01	-410806 02	-462605 03	-144333 04	-201997 04	-134024 04	-344733 03
8	-472606 00	-412298 00	-517310 00	216332 00	-296627 00	320482 02	329965 03	990332 03	134100 04	864191 03	216577 03
9	207962 00	180308 00	224323 00	-388129-02	153168 01	-158573 02	-160103 03	-450928 03	-581340 03	-360493 03	-875555 02
10	-454991-01	-413225-01	-473898-01	-150872-01	-795454-02	680411 01	433281 02	105488 03	125627 03	738981 02	172618 02
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.8800$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.7600	0.8207	0.3520	0.0842	0.0000	-0.0056	0.0000	0.0008	0.0000	-0.0002	0.0000
2	2.3232	-1.2962	0.0044	0.4301	0.2950	0.0881	0.0000	-0.0073	0.0000	0.0012	0.0000
3	-2.7259	1.7015	-0.2947	-0.4529	0.0995	0.3629	0.2542	0.0790	0.0000	-0.0070	0.0000
4	2.9985	-2.0352	0.5930	0.3972	-0.3097	-0.2566	0.1590	0.3313	0.2210	0.0681	0.0000
5	-3.1664	2.3004	-0.8896	-0.2769	0.4520	0.1041	-0.2993	-0.1447	0.1991	0.3076	0.1931
6	3.2508	-2.5022	1.1732	0.1072	-0.5330	0.0681	0.3343	-0.0401	-0.2722	-0.0626	0.2257
7	-3.2694	2.6471	-1.4350	0.0974	0.5551	-0.2380	-0.2946	0.1959	0.2270	-0.1245	-0.2349
8	3.2368	-2.7416	1.6693	-0.3235	-0.5225	0.3893	0.2012	-0.3061	-0.1193	0.2381	0.1306
9	-3.1648	2.7926	-1.8726	0.5601	0.4417	-0.5103	-0.0722	0.3637	-0.0153	-0.2776	0.0086
10	3.0635	-2.8063	2.0437	-0.7974	0.1610	0.5940	-0.0753	-0.3685	0.1508	0.2528	-0.1396

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	357134-09	100607-08	600420-09	754319-09	145481-08	456571-08	109266007	988814-08	241480-08	-411101-09
1	175505 01	548557 00	-843920-01	632549-01	-430114-01	120385 00	845157 00	214975 01	212014 01	734745 00	-545645-01
2	923776 00	121796 01	-108514 00	-110969 00	103071 00	-472421 00	-360507 01	-892989 01	-860529 01	-276991 01	318593 00
3	-785848-01	148461 01	146314 01	-722073-01	-434436-01	705721 00	574966 01	135105 02	120741 02	288578 01	-981936 00
4	-485414-02	180106-03	683843-02	201121-03	-952777-02	169280 00	219971 01	738750 01	109318 02	762938 01	206216 01
5	-203288 00	831922 00	312058 01	138608 01	-281048 00	-328373 01	-317065 02	-795780 02	-844520 02	-362240 02	-318132 01
6	235777 00	-106897 01	-207538 01	903266 00	281763 00	876277 01	800268 02	192633 03	194103 03	751550 02	368390 01
7	-117123 00	878314 00	218872 01	119574 01	156643 01	-145041 02	-120181 03	-280162 03	-271510 03	-987370 02	-317139 01
8	153441-01	-535890 00	-145400 01	172884 00	659949 00	160062 02	119950 03	269135 03	249404 03	858379 02	194388 01
9	148592-01	225850 00	593968 00	132170-01	123075 01	-985523 01	-778204 02	-163311 03	-142374 03	-462523 02	-766287 00
10	-818726-02	-496518-01	-118194 00	-188111-01	686015-01	586396 01	277886 02	495332 02	394033 02	119685 02	147138 00
L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.8900$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.7800	0.8157	0.3560	0.0869	0.0000	-0.0060	0.0000	0.0009	0.0000	-0.0002	0.0000
	2	2.3763	-1.2974	-0.0184	0.4248	0.3018	0.0926	0.0000	-0.0080	0.0000	0.0014	0.0000
	3	-2.8199	1.7167	-0.2561	-0.4636	0.0758	0.3595	0.2630	0.0843	0.0000	-0.0078	0.0000
	4	3.1371	-2.0713	1.0695	0.4302	-0.2833	-0.2751	0.1360	0.3307	0.2313	0.0738	0.0000
	5	-3.3504	2.3629	-0.8339	-0.3348	0.4337	0.1432	-0.2844	-0.1693	0.1780	0.3099	0.2043
	6	3.4789	-2.5949	1.1186	0.1897	-0.5320	0.0142	0.3389	-0.0006	-0.2685	-0.0913	0.2074
	7	-3.5385	2.7722	-1.3882	-0.0068	0.5786	-0.1777	-0.3243	0.1543	0.2484	-0.0888	-0.2414
	8	3.5430	-2.9000	1.6364	-0.2021	-0.5752	0.3322	0.2566	-0.2749	-0.1646	0.2126	0.1636
	9	-3.5036	2.9842	-1.8590	0.4272	0.5257	-0.4659	-0.1500	0.3533	0.0467	-0.2746	-0.0415
	10	3.4300	-3.0299	2.0537	-0.2836	-0.4353	0.5709	0.0185	-0.3859	0.0826	0.2783	-0.0862

U^{-1} 0	100000 01	-108804-08	-208935-09	347940-09	591310-09	-373649-08	-341100-07	-719865-07	-589953-07	-137565-07	292143-08
1	179823 01	484945 00	-156442 00	630868-01	-396712-01	105738 00	832257 00	230295 01	259736 01	123615 01	138617 00
2	882841 00	164931 01	344659 00	-122024 00	876255-01	-354150 00	-315634 01	-890524 01	-105345 02	-546913 01	-857080 00
3	791675-04	-159441-01	-151919-01	-342441-03	-100937-01	194738 00	271925 01	935868 01	140501 02	990063 01	269803 01
4	-138153 00	325451 01	304962 01	-173408 00	-768831-01	165608 01	129313 02	268820 02	174373 02	-327112 01	-557442 01
5	105386 00	-383838 01	-140533 01	155587 01	-109125 00	-636652 01	-558804 02	-128103 03	-112440 03	-259376 02	828325 01
6	-532169-01	435037 01	317382 01	713712 00	-252679-01	133091 02	116558 03	268273 03	243953 03	688633 02	-942638 01
7	-699076 00	-527215 01	-256438 01	151134 01	175551 01	-190913 02	-156877 03	-354411 03	-319110 03	-926262 02	873431 01
8	-375121 00	179997 01	111714 01	148620 00	436558 00	198546 02	150954 03	333160 03	295594 03	889307 02	-451565 01
9	-563399 00	-204574 01	-687447 00	121997 00	133688 01	-116148 02	-903426 02	-185583 03	-154554 03	-435546 02	244605 01
10	-476366-01	101609 00	657983-01	-190278-01	508155-01	652270 01	314739 02	561523 02	439091 02	124381 02	-314650 00

$\gamma = 0.9000$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.8000	0.8106	0.3600	0.0896	0.0000	-0.0065	0.0000	0.0010	0.0000	-0.0002	0.0000
	2	2.4300	-1.2979	-0.0414	0.4190	0.3086	0.0973	0.0000	-0.0089	0.0000	0.0016	0.0000
	3	-2.9160	1.7306	-0.2160	-0.4729	0.0513	0.3551	0.2719	0.0901	0.0000	-0.0089	0.0000
	4	3.2805	-2.1056	0.4892	0.4614	-0.2540	-0.2921	0.1115	0.3289	0.2418	0.0800	0.0000
	5	-3.5429	2.4235	-0.7720	-0.3915	0.4099	0.1817	-0.2656	-0.1928	0.1548	0.3110	0.2161
	6	3.7201	-2.6861	1.0547	0.2728	-0.5230	-0.0418	0.3374	0.0401	-0.2602	-0.1196	0.1865
	7	-3.8264	2.8971	-1.3287	-0.1148	0.5921	-0.1113	-0.3470	0.1075	0.2644	-0.0499	-0.2432
	8	3.8743	-3.0604	1.5877	-0.0728	-0.6169	0.2641	0.3061	-0.2338	-0.2060	0.1794	0.1925
	9	-3.8742	3.1807	-1.8268	0.2814	0.5992	-0.4053	-0.2250	0.3286	0.1088	-0.2599	-0.0914
	10	3.8355	-3.2622	2.0431	-0.5028	-0.5421	0.5267	0.1147	-0.3861	0.0082	0.2904	-0.0267

U^{-1} 0	100000 01	424274-09	708636-09	673744-09	152218-08	-736627-08	-949387-07	-285437-06	-376424-06	-233071-06	-556506-07
1	182532 01	542720 00	-889303-01	689866-01	900233-02	-854456 00	-133362 02	-473669 02	-725926 02	-519147 02	-143406 02
2	802684 00	113513 01	-521454-01	-148954 00	-193466 00	510601 01	769471 02	271006 03	411935 03	292297 03	800012 02
3	433749 00	178205 01	116663 01	821614-01	827002 00	-161251 02	-235472 03	-820052 03	-123384 04	-866967 03	-234665 03
4	-107015 01	-415008 00	586597 00	-345252 00	-176341 01	348361 02	494904 03	169906 04	252541 04	175383 04	468723 03
5	135886 01	148901 01	229215 01	174093 01	242364 01	-559567 02	-772125 03	-260317 04	-381229 04	-261048 04	-687612 03
6	-151211 01	-177797 01	-948522 00	534451 00	-294612 01	691975 02	916871 03	302032 04	434177 04	292224 04	756906 03
7	135782 01	141675 01	123801 01	157462 01	424924 01	-664086 02	-825323 03	-263723 04	-370048 04	-243766 04	-619079 03
8	-873894 00	-821736 00	-876499 00	842802-01	-993406 00	480327 02	544909 03	166878 04	226553 04	145200 04	360191 03
9	358789 00	323643 00	364220 00	408390-01	204319 01	-230804 02	-243830 03	-697855 03	-903147 03	-558318 03	-134582 03
10	-727783-01	-660926-01	-731163-01	-238514-01	-465294-01	883766 01	597174 02	148752 03	178584 03	105047 03	244145 02

$\gamma = 0.9100$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.8200	0.8054	0.3640	0.0924	0.0000	-0.0070	0.0000	0.0012	0.0000	-0.0003	0.0000
2	2.4843	-1.2976	-0.0647	0.4125	0.3155	0.1023	0.0000	-0.0099	0.0000	0.0019	0.0000
3	-3.0143	1.7429	-0.1745	-0.4807	0.0259	0.3497	0.2811	0.0963	0.0000	-0.0100	0.0000
4	3.4288	-2.1378	0.4320	0.4905	-0.2218	-0.3074	0.0855	0.3257	0.2528	0.0868	0.0000
5	-3.7441	2.4816	-0.7036	-0.4466	0.3802	0.2193	-0.2426	-0.2148	0.1295	0.3106	0.2283
6	3.9751	-2.7752	0.9807	0.3559	-0.5051	-0.0992	0.3291	0.0816	-0.2468	-0.1471	0.1629
7	-4.1341	3.0210	-1.2553	-0.2255	0.5941	-0.0396	-0.3614	0.0559	0.2737	-0.0083	-0.2395
8	4.2323	-3.2216	1.5212	0.0633	-0.6455	0.1856	0.3474	-0.1829	-0.2414	0.1385	0.2159
9	-4.2793	3.3807	-1.7732	0.1237	0.6592	-0.3284	-0.2941	0.2889	0.1684	-0.2327	-0.1390
10	4.2836	-3.5016	2.0080	-0.3282	-0.6364	0.4601	0.2094	-0.3669	-0.0695	0.2868	0.0365

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	-113161-08	-410313-09	630298-11	-119426-08	528550-07	724332-06	241875-05	349269-05	235169-05	608226-06
1	187372 01	566717 00	-651059-01	771413-01	499203-01	-182141 01	-282601 02	-996620 02	-150672 03	-105909 03	-286280 02
2	674190 00	944929 00	-168121 00	-196675 00	-416913 00	104362 02	158748 03	556451 03	836413 03	584617 03	156995 03
3	876817 00	235495 01	144611 01	236835 00	146127 01	-316035 02	-471494 03	-163947 04	-244661 04	-169813 04	-452458 03
4	-194935 01	-145196 01	497980-02	-652622 00	-300480 01	656003 02	960439 03	330592 04	489116 04	336680 04	889153 03
5	261057 01	302268 01	317848 01	209124 01	427289 01	-101220 03	-145029 04	-492846 04	-721600 04	-491849 04	-128606 04
6	-287171 01	-345563 01	-184810 01	177694 00	-507028 01	119718 03	166393 04	556205 04	803840 04	541466 04	139989 04
7	247736 01	277538 01	199999 01	188394 01	599320 01	-108918 03	-144360 04	-472127 04	-670976 04	-445492 04	-113702 04
8	-154101 01	-161281 01	-133989 01	-115242-01	-207304 01	740219 02	915045 03	290164 04	403161 04	262921 04	661207 03
9	619237 00	626860 00	546797 00	680232-01	256323 01	-337995 02	-389962 03	-117682 04	-158342 04	-100948 04	-249595 03
10	-123907 00	-125032 00	-108935 00	-276944-01	-129002 00	112250 02	889708 02	242611 03	310800 03	192418 03	466559 02

$\gamma = 0.9200$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.8400	0.8000	0.3680	0.0954	0.0000	-0.0076	0.0000	0.0013	0.0000	-0.0003	0.0000
2	2.5392	-1.2965	-0.0882	0.4054	0.3224	0.1077	0.0000	-0.0109	0.0000	0.0022	0.0000
3	-3.1147	1.7536	-0.1315	-0.4867	-0.0003	0.3431	0.2905	0.1031	0.0000	-0.0114	0.0000
4	3.5820	-2.1674	0.3711	0.5172	-0.1865	-0.3206	0.0579	0.3210	0.2641	0.0943	0.0000
5	-3.9544	2.5367	-0.6284	-0.4994	0.3445	0.2553	-0.2152	-0.2350	0.1019	0.3085	0.2412
6	4.2445	-2.8613	0.8960	0.4378	-0.4776	-0.1571	0.3134	0.1230	-0.2280	-0.1733	0.1363
7	-4.4627	3.1426	-1.1669	-0.3376	0.5832	0.0364	-0.3660	0.0004	0.2752	0.0352	-0.2297
8	4.6190	-2.7870	1.4351	0.2048	-0.6583	0.0973	0.3780	-0.1226	-0.2687	0.0904	0.2321
9	-4.7216	3.5826	-1.6955	-0.0447	0.7017	-0.2354	-0.3537	0.2338	0.2221	-0.1926	-0.1816
10	4.7783	-3.7462	1.9444	-0.1367	-0.7132	0.3705	0.2980	-0.3267	-0.1464	0.2653	0.1001

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	283225-08	-784434-10	935238-09	560725-09	362971-09	381457-08	570645-08	-808414-08	-201259-07	-991429-08
1	-125090-01	-393732-02	211186-03	-666928-03	-613040-03	192814-01	312440 00	111602 01	169111 01	118497 01	317926 00
2	110332 02	398385 01	-501913 00	222854 00	-133856 00	313547 00	104570 01	-139243 01	-915985 01	-111864 02	-443159 01
3	-285647 02	-629899 01	232951 01	-947121 00	619938 00	-229957 01	-131300 02	-127608 02	260811 02	486598 02	219451 02
4	553555 02	155234 02	-172161 01	166425 01	-131250 01	766842 01	501412 02	640317 02	-507358 02	-132902 03	-632940 02
5	-797397 02	-213892 02	565856 01	-135027 01	181840 01	-168166 02	-116498 03	-160632 03	728349 02	255022 03	124332 03
6	864693 02	230885 02	-441933 01	395025 01	-241979 01	270504 02	188855 03	267638 03	-789478 02	-358841 03	-176143 03
7	-701326 02	-188717 02	407758 01	-117952 01	376639 01	-328758 02	-222062 03	-316181 03	641174 02	371692 03	181700 03
8	409325 02	110980 02	-254767 01	187854 01	-782522 00	292960 02	187717 03	263451 03	-374811 02	-274315 03	-132405 03
9	-156219 02	-425139 01	100364 01	-667460 00	215815 01	-169078 02	-107438 03	-143991 03	143222 02	131660 03	622596 02
10	298012 01	810388 00	-194836 00	114498 00	-281714-01	820667 01	342482 02	404514 02	-273520 01	-315594 02	-145037 02

$\gamma = 0.9300$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.8600	0.7945	0.3720	0.0984	0.0000	-0.0082	0.0000	0.0015	0.0000	-0.0004	0.0000
	2	2.5947	-1.2946	-0.1120	0.3975	0.3295	0.1134	0.0000	-0.0122	0.0000	0.0026	0.0000
	3	-3.2147	1.7625	-0.0870	-0.4908	-0.0275	0.3352	0.3000	0.1105	0.0000	-0.0130	0.0000
	4	3.7403	-2.1942	0.3065	0.5410	-0.1481	-0.3315	0.0287	0.3146	0.2757	0.1027	0.0000
	5	-4.1741	2.5881	-0.5461	-0.5491	0.3023	0.2890	-0.1832	-0.2528	0.0719	0.3044	0.2545
	6	4.5289	-2.9434	0.8000	0.5175	-0.4396	-0.2144	0.2894	0.1636	-0.2033	-0.1975	0.1065
	7	-4.8136	3.2605	-1.0621	-0.4496	0.5575	0.1155	-0.3591	-0.0580	0.2677	0.0798	-0.2130
	8	5.0363	-3.5401	1.3272	0.3497	-0.6526	0.0008	0.3951	-0.0539	-0.2855	0.0359	0.2394
	9	-5.2041	3.7840	-1.5902	-0.2216	0.7228	-0.1274	-0.3994	0.1636	0.2664	-0.1396	-0.2162
	10	5.3238	-3.9934	1.8478	0.0699	-0.7667	0.2581	0.3747	-0.2641	-0.2175	0.2246	0.1599

U^{-1}	0	100000 01	252403-08	211951-08	283441-08	408232-08	-760883-07	-121130-05	-422767-05	-623282-05	-423517-05	-109710-05
	1	198429 01	597505 00	-327537-01	129839 00	105343 00	-361997 01	-610062 02	-220395 03	-334757 03	-234013 03	-624292 02
	2	369799 00	679084 00	-298915 00	-479599 00	-692057 00	196967 02	326589 03	117193 04	176942 04	122981 04	326028 03
	3	182737 01	308940 01	167766 01	104121 01	215849 01	-565109 02	-920205 03	-327322 04	-490494 04	-338466 04	-890475 03
	4	-368863 01	-256588 01	-453397 00	-214415 01	-422861 01	111355 03	177752 04	625459 04	928882 04	635591 04	165783 04
	5	487572 01	450186 01	382503 01	394429 01	595761 01	-163436 03	-254626 04	-883986 04	-129875 05	-879936 04	-227304 04
	6	-511209 01	-486146 01	-230405 01	-169532 01	-689596 01	183989 03	277257 04	946270 04	137196 05	918704 04	234738 04
	7	415865 01	371920 01	235041 01	336285 01	732175 01	-159166 03	-228421 04	-762330 04	-108690 05	-717636 04	-181102 04
	8	-245493 01	-204460 01	-153736 01	-650301 00	-288654 01	102855 03	137568 04	445039 04	620724 04	402867 04	100241 04
	9	944824 00	749987 00	617597 00	277397 00	306211 01	-453720 02	-557058 03	-171743 04	-232444 04	-147712 04	-361710 03
	10	-182607 00	-142357 00	-121523 00	-632192-01	-179360 00	139422 02	120175 03	338285 03	438375 03	271408 03	652974 02
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.9400$

	L \ L'	0	1	2	3	4	5	6	7	8	9	10
U	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.8800	0.7888	0.3760	0.1016	0.0000	-0.0089	0.0000	0.0017	0.0000	-0.0005	0.0000
	2	2.6508	-1.2918	-0.1360	0.3888	0.3366	0.1195	0.0000	-0.0136	0.0000	0.0031	0.0000
	3	-3.3223	1.7693	-0.0411	-0.4927	-0.0555	0.3258	0.3098	0.1187	0.0000	-0.0150	0.0000
	4	3.9038	-2.2178	0.2380	0.5615	-0.1064	-0.3395	-0.0021	0.3062	0.2878	0.1121	0.0000
	5	-4.4034	2.6352	-0.4563	-0.5947	0.2532	0.3195	-0.1462	-0.2675	0.0394	0.2978	0.2685
	6	4.8291	-3.0203	0.6919	0.5935	-0.3902	-0.2699	0.2564	0.2022	-0.1722	-0.2188	0.0735
	7	-5.1878	3.3730	-0.9396	-0.5595	0.5154	0.1958	-0.3390	-0.1177	0.2498	0.1242	-0.1885
	8	5.4862	-3.6933	1.1951	0.4955	-0.6254	-0.1019	0.3956	0.0217	-0.2891	-0.0236	0.2357
	9	-5.7299	3.9820	-1.4540	-0.4041	0.7177	-0.0063	-0.4266	0.0793	0.2968	-0.0745	-0.2391
	10	5.9248	-4.2398	1.7130	0.2883	-0.7903	0.1241	0.4328	-0.1792	-0.2769	0.1640	0.2107

U^{-1}	0	100000 01	-705292-09	495948-10	-567979-09	-152751-08	580389-07	869579-06	295824-05	426359-05	283338-05	717587-06
	1	209943 01	683811 00	138936-01	208768 00	168604 00	-583538 01	-103510 03	-380163 03	-580535 03	-405604 03	-107686 03
	2	-743472-01	188991 00	-513445 00	-882439 00	-100153 01	308169 02	539259 03	196820 04	298930 04	207773 04	548599 03
	3	304706 01	438574 01	218096 01	211377 01	294117 01	-855951 02	-147403 04	-533635 04	-804937 04	-555857 04	-145786 04
	4	-584663 01	-477575 01	-137441 01	-405421 01	-559418 01	163286 03	276049 04	989416 04	148028 05	101451 05	264069 04
	5	764658 01	742349 01	505237 01	636660 01	776849 01	-232010 03	-383301 04	-135695 05	-201041 05	-136574 05	-352495 04
	6	-780455 01	-774362 01	-342559 01	-409046 01	-874322 01	252633 03	404435 04	140953 05	206353 05	138738 05	354696 04
	7	613279 01	582302 01	319797 01	515955 01	866785 01	-210988 03	-322692 04	-110181 05	-158904 05	-105527 05	-266917 04
	8	-350279 01	-314170 01	-200516 01	-151367 01	-367137 01	131386 03	188023 04	623990 04	882610 04	577493 04	144320 04
	9	131022 01	112411 01	786877 00	566147 00	345430 01	-560840 02	-734997 03	-233543 04	-321803 04	-206804 04	-509926 03
	10	-246910 00	-206912 00	-152211 00	-112546 00	-228833 00	161671 02	152048 03	445891 03	592041 03	372292 03	904786 02
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.9500$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.9000	0.7829	0.3800	0.1050	0.0000	-0.0096	0.0000	0.0020	0.0000	-0.0005	0.0000
	2	2.7075	-1.2880	-0.1603	0.3792	0.3438	0.1262	0.0000	-0.0153	0.0000	0.0036	0.0000
	3	-3.4295	1.7740	0.0063	-0.4923	-0.0843	0.3148	0.3198	0.1277	0.0000	-0.0173	0.0000
	4	4.0725	-2.2376	0.1656	0.5780	-0.0616	-0.3443	-0.0346	0.2954	0.3002	0.1227	0.0000
	5	-4.6426	2.6770	-0.3589	-0.6352	0.1970	0.3459	-0.1041	-0.2784	0.0044	0.2883	0.2831
	6	5.1457	-3.0906	0.5709	0.6639	-0.3286	-0.3218	0.2135	0.2374	-0.1341	-0.2362	0.0368
	7	-5.5867	3.4781	-0.7980	-0.6647	0.4550	0.2749	-0.3038	-0.1768	0.2199	0.1666	-0.1556
	8	5.9709	-3.8387	1.0366	0.6390	-0.5734	-0.2080	0.3760	0.1017	-0.2766	-0.0861	0.2188
	9	-6.3025	4.1729	-1.2830	-0.5881	0.6814	0.1248	-0.4296	-0.0168	0.3082	0.0008	-0.2463
	10	6.5861	-4.4307	1.5345	0.5139	-0.7765	-0.0283	0.4642	-0.0734	-0.3168	0.0843	0.2459

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	993296-09	644303-09	588399-09	869893-09	-149863-07	-241564-06	-796225-06	-109142-05	-681899-06	-160641-06
	1	232347 01	884664 00	105200 00	387537 00	282382 00	-102062 02	-190875 03	-713816 03	-109731 04	-767009 03	-202846 03
	2	-103561 01	-851223 00	-936914 00	-176609 01	-154520 01	522239 02	966171 03	359350 04	549827 04	382616 04	100722 04
	3	553823 01	704250 01	319275 01	438138 01	428358 01	-140058 03	-255670 04	-944167 04	-143605 05	-993764 04	-260131 04
	4	-101287 02	-927724 01	-313818 01	-798273 01	-787055 01	257840 03	463192 04	169565 05	256084 05	176069 05	457964 04
	5	130285 02	131987 02	730091 01	113090 02	106690 02	-353407 03	-622076 04	-225295 05	-337401 05	-230253 05	-594690 04
	6	-129191 02	-133094 02	-547795 01	-886893 01	-115657 02	370736 03	634659 04	226756 05	336149 05	227415 05	582774 04
	7	979325 01	981655 01	468591 01	864068 01	106696 02	-297573 03	-489298 04	-171748 05	-251404 05	-168354 05	-427672 04
	8	-540109 01	-519850 01	-279384 01	-323101 01	-478854 01	177636 03	275205 04	942640 04	135769 05	898246 04	225982 04
	9	195786 01	181782 01	106266 01	113901 01	396129 01	-727584 02	-103541 04	-341741 04	-481772 04	-314184 04	-782096 03
	10	-359408 00	-325946 00	-201144 00	-210221 00	-297287 00	194327 02	204898 03	632658 03	865931 03	555284 03	136716 03
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.9600$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.9200	0.7769	0.3840	0.1085	0.0000	-0.0105	0.0000	0.0023	0.0000	-0.0007	0.0000
	2	2.7648	-1.2832	-0.1849	0.3687	0.3511	0.1334	0.0000	-0.0172	0.0000	0.0044	0.0000
	3	-3.5389	1.7761	0.0553	-0.4892	-0.1141	0.3018	0.3300	0.1378	0.0000	-0.0201	0.0000
	4	4.2467	-2.2531	0.0891	0.5899	-0.0133	-0.3450	-0.0688	0.2817	0.3131	0.1349	0.0000
	5	-4.8922	2.7124	-0.2533	-0.6692	0.1332	0.3669	-0.0566	-0.2845	-0.0333	0.2751	0.2983
	6	5.4793	-3.1525	0.4364	0.7266	-0.2536	-0.3680	0.1600	0.2673	-0.0885	-0.2484	-0.0035
	7	-6.0115	3.5729	-0.6357	-0.7619	0.3743	0.3497	-0.2515	-0.2323	0.1767	0.2049	-0.1131
	8	6.4926	-3.9727	0.8488	0.7754	-0.4931	-0.3132	0.3326	0.1825	-0.2445	-0.1484	0.1864
	9	-6.9253	4.3518	-1.0730	-0.7677	0.6080	0.2606	-0.4022	-0.1206	0.2948	0.0829	-0.2328
	10	7.3132	-4.7098	1.3061	0.7396	-0.7168	-0.1937	0.4595	0.0495	-0.3285	-0.0118	0.2577

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	590434-08	330223-08	535334-08	490616-08	-131383-06	-235691-05	-858670-05	-128667-04	-875788-05	-225151-05
	1	287225 01	141901 01	331229 00	854738 00	545361 00	-206550 02	-406463 03	-154879 04	-239834 04	-167798 04	-442224 03
	2	-351584 01	-346137 01	-198602 01	-400988 01	-277763 01	102170 03	199518 04	757001 04	116794 05	814303 04	213846 04
	3	116981 02	135086 02	570591 01	995781 01	726315 01	-263675 03	-509838 04	-192361 05	-295395 05	-205055 05	-536158 04
	4	-204402 02	-200774 02	-735509 01	-173924 02	-127960 02	466556 03	891165 04	333942 05	509976 05	352232 05	916495 04
	5	257258 02	266787 02	125003 02	229694 02	167312 02	-614104 03	-115464 05	-429062 05	-650977 05	-447047 05	-115699 05
	6	-247483 02	-260101 02	-102119 02	-198886 02	-172337 02	617533 03	113618 05	417787 05	628940 05	429085 05	110401 05
	7	180898 02	187758 02	801045 01	164760 02	145995 02	-473611 03	-844319 04	-306248 05	-456640 05	-309179 05	-790406 04
	8	-961946 01	-975536 01	-449655 01	-714086 01	-686676 01	268964 03	457158 04	162734 05	239752 05	160905 05	408487 04
	9	337437 01	334283 01	164044 01	244104 01	479090 01	-104501 03	-165117 04	-571472 04	-828933 04	-550676 04	-138768 04
	10	-602449 00	-586274 00	-301376 00	-431790 00	-419662 00	252825 02	311416 03	102587 04	145746 04	957193 03	239451 03
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.9700$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.9400	0.7706	0.3880	0.1122	0.0000	-0.0115	0.0000	0.0027	0.0000	-0.0008	0.0000
	2	2.8227	-1.2772	-0.2097	0.3570	0.3584	0.1413	0.0000	-0.0196	0.0000	0.0053	0.0000
	3	-3.6507	1.7754	0.1058	-0.4830	-0.1448	0.2865	0.3404	0.1492	0.0000	-0.0236	0.0000
	4	4.4265	-2.2634	0.0084	0.5961	0.0385	-0.3409	-0.1048	0.2644	0.3263	0.1490	0.0000
	5	-5.1524	2.7399	-0.1394	-0.6948	0.0615	0.3806	-0.0034	-0.2843	-0.0739	0.2572	0.3141
	6	5.8308	-3.2037	0.2874	0.7785	-0.1644	-0.4055	0.0948	0.2894	-0.0349	-0.2532	-0.0478
	7	-6.4638	3.6541	-0.4511	-0.8465	0.2712	0.4157	-0.1801	-0.2805	0.1184	0.2355	-0.0602
	8	7.0538	-4.0902	0.6291	0.8987	-0.3805	-0.4115	0.2611	0.2588	-0.1892	-0.2057	0.1357
	9	-7.6023	4.5119	-0.8195	-0.9348	0.4912	0.3937	-0.3373	-0.2253	0.2501	0.1659	-0.1932
	10	8.1117	-4.9186	1.0211	0.9551	-0.2741	-0.3629	0.4079	0.1818	-0.3012	-0.1178	0.2368

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	779032-09	134655-08	616947-09	108645-08	-638802-08	-710292-07	-158888-06	-138553-06	-440209-07	-921978-09
	1	189265 01	406707 00	-890590-02	-247560-01	-707656-01	300012 01	413788 02	112809 03	113443 03	389859 02	-160875 00
	2	132896 01	132110 01	-307011 00	177154 00	205933 00	-105017 02	-143361 03	-387681 03	-387105 03	-131820 03	757052 00
	3	-316444 00	167706 01	141406 01	-364110 00	-225513 00	139921 02	187783 03	501533 03	494835 03	165382 03	-184079 01
	4	-697775-02	-700676-02	-277956-02	-604652-02	-367297-02	141312 00	285356 01	109464 02	169075 02	117313 02	305277 01
	5	-823472-02	168862 01	316299 01	127005 01	632746 00	-353903 02	-452587 03	-116215 04	-115508 04	-393251 03	-374564 01
	6	-245897 00	-245663 01	-113427 01	492365 00	-192887 01	747946 02	914425 03	233493 04	223736 04	743845 03	348161 01
	7	601736 00	207860 01	149271 01	211159 01	363050 01	-919128 02	-105820 04	-262786 04	-246469 04	-803246 03	-243447 01
	8	-618467 00	-118910 01	-113819 01	299012 00	-131375 01	755459 02	801889 03	191666 04	174991 04	558052 03	123281 01
	9	330492 00	447472 00	507666 00	-783966-01	305260 01	-405405 02	-385807 03	-870009 03	-766244 03	-238172 03	-412125 00
	10	-789625-01	-880971-01	-107763 00	216694-02	-100639 00	147569 02	954553 02	193997 03	162361 03	488994 02	703985-01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.9800$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-1.9600	0.7640	0.3920	0.1161	0.0000	-0.0126	0.0000	0.0032	0.0000	-0.0011	0.0000
	2	2.8812	-1.2699	-0.2348	0.3441	0.3659	0.1501	0.0000	-0.0224	0.0000	0.0066	0.0000
	3	-3.7647	1.7714	0.1579	-0.4731	-0.1764	0.2684	0.3511	0.1624	0.0000	-0.0281	0.0000
	4	4.6119	-2.2676	-0.0766	0.5953	0.0939	-0.3306	-0.1426	0.2426	0.3400	0.1659	0.0000
	5	-5.4235	2.7577	-0.0167	-0.7096	-0.0185	0.3847	0.0558	-0.2757	-0.1173	0.2332	0.3307
	6	6.2009	-3.2409	0.1232	0.8155	-0.0599	-0.4301	0.0170	0.3001	0.0274	-0.2479	-0.0963
	7	-6.9450	3.7167	-0.2426	-0.9122	0.1433	0.4665	-0.0871	-0.3153	0.0431	0.2536	0.0042
	8	7.6569	-4.1844	0.3745	0.9997	-0.2314	-0.4936	0.1571	0.3219	-0.1067	-0.2508	0.0639
	9	-8.3375	4.6440	-0.5178	-1.0772	0.3240	0.5117	-0.2270	-0.3199	0.1664	0.2399	-0.0303
	10	8.9878	-5.0946	0.6721	1.1448	-0.4201	-0.5205	0.2966	0.3098	-0.2225	-0.2214	0.1722

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	673095-09	141788-08	134838-08	398128-09	254398-07	169870-06	325421-06	204267-06	-165741-07	-397264-07
	1	181946 01	982152-01	-174303 00	-101462 00	-221555 00	486631 02	345630 03	673802 03	426924 03	-302918 02	-803018 02
	2	181415 01	261861 01	523431 00	445059 00	963381 00	-217693 03	-150745 04	-289308 04	-180525 04	138768 03	339703 03
	3	-147019 01	-121911 01	-737712 00	-776780 00	-220082 01	497273 03	332547 04	624531 04	381321 04	-327340 03	-719727 03
	4	200573 01	450277 01	368122 01	337599 00	348754 01	-769143 03	-492308 04	-899494 04	-533765 04	527077 03	101610 04
	5	-270369 01	-337021 01	-156270 01	117727 01	-389693 01	673207 03	529340 04	934258 04	533934 04	-629551 03	-103613 04
	6	250397 01	188059 01	358646 01	203135 00	252523 01	-741336 03	-419205 04	-707265 04	-383543 04	571505 03	775171 03
	7	-148921 01	-775882 00	-194535 01	254711 01	292405 00	461598 03	237747 04	376762 04	188252 04	-391689 03	-416035 03
	8	518103 00	209224 00	651921 00	112311 00	351689 00	-197223 03	-884097 03	-127090 04	-540624 03	195213 03	150221 03
	9	-724159-01	-181919-01	-101013 00	-199614-01	262161 01	481937 02	164770 03	192963 03	411405 02	-645414 02	-317305 02
	10	-689603-02	-674954-02	-298468-02	-570754-02	-335262-02	129485 00	264345 01	102469 02	158654 02	109713 02	283313 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$\gamma = 0.9900$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-1.9800	0.7573	0.3960	0.1204	0.0000	-0.0139	0.0000	0.0038	0.0000	-0.0014	0.0000
2	2.9403	-1.2610	-0.2601	0.3294	0.3734	0.1600	0.0000	-0.0261	0.0000	0.0085	0.0000
3	-3.8812	1.7634	0.2115	-0.4585	-0.2089	0.2465	0.3619	0.1782	0.0000	-0.0343	0.0000
4	4.8030	-2.2642	-0.1659	0.5855	0.1530	-0.3123	-0.1822	0.2145	0.3541	0.1870	0.0000
5	-5.7059	2.7630	0.1151	-0.7098	-0.1073	0.3753	0.1212	-0.2553	-0.1637	0.2001	0.3479
6	6.5904	-3.2595	-0.0572	0.8312	0.0611	-0.4351	-0.0742	0.2930	0.0988	-0.2271	-0.1492
7	-7.4565	3.7536	-0.0083	-0.9494	-0.0117	0.4918	0.0298	-0.3271	-0.0509	0.2506	0.0811
8	8.3048	-4.2448	0.0816	1.0642	-0.0414	-0.5447	0.0155	0.3576	0.0073	-0.2704	-0.0323
9	-9.1352	4.7333	-0.1625	-1.1753	0.0988	0.5939	-0.0624	-0.3843	0.0353	0.2865	0.0815
10	9.9482	-5.2185	0.2508	1.2826	-0.1601	-0.6391	0.1114	0.4073	-0.0779	-0.2987	0.0510

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	196058-08	106939-08	206108-08	643623-09	-149419-06	-112562-05	-231566-05	-153802-05	909591-07	292325-06
1	191089 01	-143739 00	-486963-01	-470807 00	371572-01	519740 02	462114 03	102628 04	725591 03	-250823 02	-136264 03
2	152096 01	349327 01	262862-01	187548 01	-519875-01	-229024 03	-194107 04	-420665 04	-291670 04	116579 03	544735 03
3	-720792 00	-282271 01	236982 00	-346993 01	-259619 00	514890 03	409342 04	857262 04	577763 04	-279962 03	-107304 04
4	860157 00	649243 01	233573 01	364938 01	107425 01	-786056 03	-579028 04	-116156 05	-754038 04	459808 03	139717 04
5	-154921 01	-496249 01	-299818 00	-170002 01	-180770 01	885200 03	597128 04	113669 05	702798 04	-560955 03	-131084 04
6	171609 01	272763 01	289621 01	182701 01	132514 01	-749793 03	-456441 04	-814486 04	-471592 04	520848 03	903632 03
7	-113657 01	-105641 01	-168729 01	202820 01	627630 00	469057 03	252027 04	413785 04	217476 04	-365653 03	-449491 03
8	427849 00	263980 00	600057 00	262491 00	247926 00	-202992 03	-924781 03	-135155 04	-597024 03	186927 03	153047 03
9	-658532-01	-308126-01	-978160-01	-398934-01	276915 01	507308 02	176107 03	210898 03	517325 02	-634466 02	-322642 02
10	-522858-02	-170195-02	-321163-02	-304788-02	-342877-02	-232444 00	-269066 00	416101 01	117294 02	110620 02	353151 01
L' \ L	0	1	2	3	4	5	6	7	8	9	10

Table II

$M_1 = 1.0000 \quad M_2 = 3.000 \quad \gamma : 0.3333$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.6667	0.9774	0.1333	0.0098	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.3333	-0.6451	0.8571	0.2713	0.0423	0.0034	0.0000	-0.0000	0.0000	0.0000	0.0000
	3	-0.1481	0.3421	-0.7012	0.7011	0.3861	0.0955	0.0138	0.0011	0.0000	-0.0000	0.0000
	4	0.0617	-0.1623	0.4201	-0.7352	0.5157	0.4649	0.1630	0.0343	0.0046	0.0003	0.0000
	5	-0.0247	0.0720	-0.2184	0.5049	-0.7268	0.3157	0.5005	0.2362	0.0659	0.0123	0.0015
	6	0.0096	-0.0304	0.1044	-0.2896	0.5776	-0.6725	0.1168	0.4909	0.3058	0.1081	0.0259
	7	-0.0036	0.0125	-0.0471	0.1498	-0.3671	0.6268	-0.5759	-0.0652	0.4385	0.3625	0.1584
	8	0.0014	-0.0050	0.0205	-0.0723	0.2057	-0.4430	0.6448	-0.4452	-0.2167	0.3500	0.3983
	9	-0.0005	0.0020	-0.0086	0.0332	-0.1061	0.2696	-0.5098	0.6271	-0.2921	-0.3275	0.2352
	10	0.0002	-0.0007	0.0036	-0.0146	0.0517	-0.1488	0.3374	-0.5600	0.5728	-0.1302	-0.3911

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	-000000 05	000000 02
	1	666665 00	933328 00	-120638 00	256282-01	-631684-02	165893-02	-461520-03	130558-03	-428400-04	347542-05	-689509-05
	2	112931 00	645081 00	830789 00	-237845 00	705146-01	-214130-01	657941-02	-206266-02	663826-03	-146968-03	119265-03
	3	-300691-05	177762 00	730831 00	683539 00	-327095 00	126831 00	-461130-01	161075-01	-598604-02	120660-02	-140243-02
	4	-190410-02	218091-01	274531 00	795415 00	506758 00	-378842 00	185941 00	-786740-01	344549-01	-657503-02	101293-01
	5	-443647-04	-401440-04	564210-01	383455 00	819490 00	315117 00	-389900 00	234449 00	-135013 00	208531-01	-545426-01
	6	267420-04	-298176-03	576541-02	107283 00	492825 00	797000 00	127260 00	-339680 00	350084 00	-170705-01	220276 00
	7	262418-04	243389-04	273650-04	184663-01	174500 00	591157 00	717888 00	-118703 00	-541079 00	-187261 00	-662021 00
	8	-231989-03	-264061-03	-353030-03	138664-02	400496-01	256238 00	694803 00	792950 00	433075 00	101511 01	141968 01
	9	156759-03	185785-03	275285-03	405733-03	652588-02	711853-01	296797 00	393947 00	-662609 00	-244384 01	-196520 01
	10	-273244-03	-318653-03	-362449-03	-432764-03	-371385-04	177283-01	175346 00	806966 00	198774 01	254461 01	133634 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$M_1 = 1.0000 \quad M_2 = 6.000 \quad \gamma = 0.1667$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.3333	0.9944	0.0667	0.0024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2	0.0833	-0.3307	0.9643	0.1411	0.0106	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0185	0.0881	-0.3876	0.9230	0.2150	0.0249	0.0017	0.0001	0.0000	0.0000	0.0000
	4	0.0039	-0.0209	0.1156	-0.4483	0.8696	0.2849	0.0452	0.0045	0.0003	0.0001	0.0000
	5	-0.0007	0.0047	-0.0300	0.1504	-0.5044	0.8052	0.3488	0.0708	0.0091	0.0008	0.0001
	6	0.0002	-0.0010	0.0072	-0.0426	0.1899	-0.5528	0.7309	0.4051	0.1010	0.0160	0.0018
	7	-0.0000	0.0002	-0.0016	0.0110	-0.0587	0.2324	-0.5920	0.6484	0.4524	0.1349	0.0255
	8	0.0001	0.0000	0.0004	-0.0025	0.0163	-0.0784	0.2766	-0.6208	0.5592	0.4898	0.1715
	9	0.0001	0.0000	-0.0001	0.0006	-0.0041	0.0232	-0.1012	0.3212	-0.6383	0.4652	0.5165
	10	0.0000	0.0000	0.0000	-0.0001	0.0010	-0.0063	0.0322	-0.1272	0.3649	-0.6443	0.3683

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	333334 00	983332 00	-650862-01	693776-02	-872468-03	104918-03	-198680-04	-621627-05	-473424-05	151373-05	-314527-05
	2	278762-01	330661 00	956653 00	-136741 00	202391-01	-308225-02	465680-03	-888455-04	-600254-05	448660-05	-286116-05
	3	-246084-04	444362-01	391342 00	916308 00	-206798 00	393542-01	-709962-02	121342-02	-223595-03	188078-04	-353452-04
	4	-120262-03	265534-02	706902-01	456085 00	863726 00	-272027 00	635251-01	-132947-01	258233-02	-522422-03	110346-03
	5	-499590-04	-608489-04	702556-02	103299 00	517174 00	800004 00	-330488 00	920142-01	-219464-01	466159-02	-120256-02
	6	-355669-04	-490940-04	339155-03	138519-01	141103 00	571388 00	726588 00	-380620 00	123997 00	-322006-01	100936-01
	7	-192158-04	-250111-04	-425378-04	109829-02	235011-01	183210 00	617017 00	644654 00	-423159 00	150821 00	-622188-01
	8	-294559-04	-684189-04	-721213-04	-723975-04	256025-02	364645-01	228555 00	653862 00	565480 00	-415259 00	272686 00
	9	-749659-04	-375049-04	-232341-04	-637193-04	209121-03	499761-02	525081-01	271189 00	643347 00	323035 00	-771657 00
	10	-165292-03	-657378-04	-733742-04	-115732-03	-100534-03	357326-03	919750-02	840633-01	407935 00	103160 01	107265 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$M_1 = 1.0000 \quad M_2 = 7.000 \quad \gamma = 0.1429$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.2857	0.9959	0.0571	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0612	-0.2840	0.9738	0.1213	0.0078	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0116	0.0649	-0.3351	0.9433	0.1859	0.0184	0.0011	0.0001	0.0000	0.0000	0.0000
4	0.0021	-0.0132	0.0856	-0.3905	0.9036	0.2483	0.0335	0.0028	0.0002	0.0000	0.0000
5	-0.0003	0.0026	-0.0190	0.1121	-0.4438	0.8553	0.3070	0.0528	0.0058	0.0005	0.0000
6	0.0001	-0.0005	0.0039	-0.0272	0.1427	-0.4923	0.7990	0.3608	0.0759	0.0102	0.0010
7	0.0000	0.0001	-0.0007	0.0061	-0.0377	0.1762	-0.5350	0.7356	0.4089	0.1023	0.0164
8	0.0001	0.0000	0.0002	-0.0012	0.0089	-0.0508	0.2120	-0.5707	0.6660	0.4504	0.1315
9	0.0001	0.0000	-0.0000	0.0003	-0.0019	0.0129	-0.0661	0.2492	-0.5989	0.5912	0.4847
10	0.0000	0.0000	0.0000	-0.0000	0.0004	-0.0030	0.0180	-0.0839	0.2871	-0.6189	0.5124

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	285710 00	987740 00	-561481-01	512874-02	-556935-03	523944-04	-104014-04	-668477-05	-447672-05	125588-05	-205206-05
2	204574-01	284027 00	968083 00	-118592 00	150401-01	-196665-02	251745-03	-473795-04	-141253-04	428783-05	-331067-05
3	-195948-04	326460-01	337401 00	938210 00	-180726 00	294364-01	-455260-02	652977-03	-109256-03	264435-05	-247495-04
4	-675585-04	166653-02	520618-01	395467 00	899018 00	-240072 00	478821-01	-857268-02	142547-02	-270992-03	410121-04
5	-419184-04	-558420-04	442158-02	763742-01	451909 00	851093 00	-295212 00	699758-01	-142887-01	262966-02	-542673-03
6	-273802-04	-386953-04	169243-03	874451-02	104848 00	504215 00	795282 00	-344988 00	952078-01	-214266-01	528361-02
7	-132413-04	-146197-04	-810322-05	564149-03	148800-01	137022 00	551106 00	732265 00	-389177 00	120047 00	-382440-01
8	-299879-04	-731695-04	-109047-03	-754508-04	137462-02	232241-01	172227 00	591865 00	666721 00	-408321 00	195880 00
9	-794257-04	-463346-04	-674981-04	-504884-04	948631-04	270833-02	337299-01	207968 00	608835 00	512771 00	-647913 00
10	-117256-03	-527950-04	-771026-04	-790205-04	-830371-04	117926-03	484684-02	521024-01	294699 00	868547 00	105272 01

$M_1 = 1.0000 \quad M_2 = 8.000 \quad \gamma = 0.1250$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.2500	0.9969	0.0500	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0469	-0.2489	0.9799	0.1064	0.0060	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0078	0.0497	-0.2948	0.9565	0.1636	0.0141	0.0007	0.0000	0.0000	0.0000	0.0000
4	0.0012	-0.0089	0.0659	-0.3453	0.9259	0.2196	0.0258	0.0019	0.0001	0.0000	0.0000
5	-0.0002	0.0015	-0.0128	0.0866	-0.3949	0.8884	0.2732	0.0408	0.0039	0.0003	0.0000
6	0.0000	-0.0002	0.0023	-0.0184	0.1108	-0.4415	0.8444	0.3237	0.0590	0.0069	0.0006
7	0.0000	0.0001	-0.0004	0.0036	-0.0256	0.1377	-0.4841	0.7945	0.3701	0.0800	0.0111
8	0.0000	0.0000	0.0001	-0.0006	0.0053	-0.0346	0.1667	-0.5220	0.7391	0.4120	0.1034
9	0.0001	0.0000	0.0001	0.0001	-0.0010	0.0077	-0.0454	0.1976	-0.5546	0.6789	0.4489
10	0.0000	0.0000	0.0000	-0.0000	0.0002	0.0632	0.0108	-0.0579	0.2296	-0.5815	0.6147

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	249997 00	990613 00	-493347-01	394096-02	-377111-03	277034-04	-591630-05	-601988-05	-832291-05	-111494-04	-183580-04
2	156520-01	248868 00	975526 00	-104557 00	115984-01	-133195-02	133928-03	-488649-04	-946330-05	-164530-05	-715004-05
3	-161872-04	249939-01	296341 00	952540 00	-160120 00	227987-01	-309069-02	370216-03	-568799-04	-410421-05	-195224-04
4	-417973-04	111610-02	399304-01	348617 00	922255 00	-214036 00	372624-01	-583850-02	844967-03	-156646-03	138375-04
5	-368715-04	-644675-04	291392-02	587180-01	400357 00	885021 00	-265210 00	548007-01	-978523-02	157738-02	-270301-03
6	-223396-04	-361069-04	703365-04	585629-02	807791-01	449322 00	841359 00	-312831 00	750355-01	-148410-01	302978-02
7	-104533-04	-199166-04	-186025-04	405037-03	106504-01	107560 00	494635 00	791694 00	-356341 00	963006-01	-252232-01
8	-299475-04	-545336-04	-936287-04	-640504-03	-303309-02	719920-02	136568 00	535838 00	738225 00	-385939 00	147807 00
9	-783344-04	-556430-04	-116647-04	208903-02	145502-01	336479-01	132644-01	165399 00	563912 00	631952 00	-559428 00
10	-872884-04	-525928-04	-326313-03	-400785-02	-270371-01	-595829-01	206378-01	308493-01	223843 00	751136 00	104006 01

$M_1 = 1.0000 \quad M_2 = 9.000 \quad \gamma = 0.1111$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.2222	0.9975	0.0445	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0370	-0.2214	0.9842	0.0947	0.0047	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0055	0.0393	-0.2630	0.9656	0.1460	0.0112	0.0005	0.0000	0.0000	0.0000	0.0000
4	0.0008	-0.0062	0.0522	-0.3091	0.9413	0.1966	0.8299	0.0013	0.0001	0.0000	0.0000
5	-0.0001	0.0010	-0.0090	0.0689	-0.3550	0.9114	0.2457	0.0324	0.0028	0.0002	0.0000
6	0.0000	-0.0001	0.0015	-0.0130	0.0884	-0.3990	0.8762	0.2926	0.0471	0.0049	0.0004
7	0.0000	0.0000	-0.0002	0.0023	-0.0181	0.1103	-0.4402	0.8359	0.3366	0.0641	0.0079
8	0.0000	0.0000	0.0001	-0.0003	0.0034	-0.0246	0.1342	-0.4574	0.7911	0.3774	0.0832
9	0.0001	0.0000	0.0001	0.0001	-0.0006	0.0049	-0.0324	0.1599	-0.5122	0.7418	0.4146
10	0.0000	0.0000	0.0000	0.0000	0.0001	0.0567	0.0069	-0.0415	0.1868	-0.5420	0.6889

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	222220 00	992580 00	-439929-01	312252-02	-254816-03	969416-04	176271-03	-645549-04	564923-05	-110856-04	-156201-04
2	123614-01	221426 00	980637 00	-934506-01	875354-02	-380775-02	-610580-02	198735-02	-443616-03	756492-04	-199028-04
3	-158506-04	197446-01	264098 00	962872 00	-136459 00	628289-01	942389-01	-313548-01	668960-02	-119287-02	191039-03
4	-147906-04	803045-03	315552-01	308487 00	892018 00	-484720 00	-600574 00	202260 00	-434171-01	765945-02	-135268-02
5	-271705-04	-520644-04	202533-02	453850-01	341173 00	796926 00	-481027 00	123033 00	-238350-01	397603-02	-666069-03
6	-176748-04	-279085-04	324654-04	391520-02	609879-01	384499 00	829944 00	-271780 00	578676-01	-102177-01	178391-02
7	-824948-05	-195365-04	-176913-04	196686-03	707136-02	836583-01	445754 00	840858 00	-329248 00	789911-01	-176584-01
8	-313022-04	-498658-04	-793632-04	-380680-03	-192211-02	421596-02	102638 00	473830 00	795069 00	-361377 00	115919 00
9	-725356-04	-467003-04	-518418-04	125209-02	962883-02	226893-01	-228870-02	125770 00	523240 00	711046 00	-492579 00
10	-694578-04	-397610-04	-224173-03	-274045-02	-203557-01	-476434-01	286913-01	137090-01	177647 00	661991 00	103157 01

$M_1 = 1.0000 \quad M_2 = 11.000 \quad \gamma = 0.0909$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1818	0.9984	0.0364	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0248	-0.1814	0.9894	0.0777	0.0032	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0030	0.0264	-0.2162	0.9769	0.1200	0.0075	0.0003	0.0000	0.0000	0.0000	0.0000
4	0.0003	-0.0034	0.0351	-0.2552	0.9606	0.1623	0.0138	0.0007	0.0000	0.0000	0.0000
5	-0.0000	0.0005	-0.0049	0.0465	-0.2946	0.9404	0.2039	0.0219	0.0015	0.0001	0.0000
6	0.0000	-0.0000	0.0007	-0.0072	0.0599	-0.3332	0.9164	0.2444	0.0319	0.0027	0.0002
7	0.0000	0.0000	-0.0001	0.0011	-0.0100	0.0751	-0.3704	0.8888	0.2832	0.0437	0.0044
8	0.0000	0.0000	0.0001	-0.0001	0.0015	-0.0136	0.0919	-0.3886	0.8578	0.3203	0.0570
9	0.0001	0.0000	0.0001	0.0000	-0.0002	0.0022	-0.0181	0.1102	-0.4391	0.8234	0.3554
10	0.0000	0.0001	0.0000	0.0000	0.0001	0.0469	0.0032	-0.0233	0.1297	-0.4699	0.7861

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	181817 00	995033 00	-361214-01	209347-02	-150344-03	207619-06	-202995-05	-517477-05	-511599-05	-616456-05	-127855-04
2	827011-02	181379 00	987011 00	-769489-01	620093-02	-521864-03	306435-04	-277483-04	-154244-04	516192-06	-584712-05
3	-106890-04	132189-01	216769 00	974763 00	-118689 00	122710-01	-121326-02	846822-04	-148135-04	-629854-05	-123196-04
4	-156803-04	426035-03	211606-01	256441 00	958525 00	-160163 00	201967-01	-230823-02	236876-03	-521007-04	-697952-05
5	-259253-04	-546305-04	109929-02	312479-01	296722 00	938362 00	-200729 00	300472-01	-391907-02	451958-03	-496607-04
6	-140912-04	-214855-04	269132-05	225733-02	432177-01	336253 00	914227 00	-240688 00	416644-01	-602371-02	803436-03
7	-563152-05	-186523-04	-140446-04	613067-04	400650-02	578160-01	376381 00	891254 00	-278983 00	546045-01	-952221-02
8	-350621-04	-509619-04	-710516-04	-178939-03	-940726-03	177608-02	678338-01	398178 00	860370 00	-312340 00	765930-01
9	-543030-04	841736-05	-753108-04	558184-03	554158-02	175875-01	229420-02	834460-01	446585 00	808816 00	-398555 00
10	-685742-04	-136110-03	-122119-03	-153728-02	-143508-01	-453414-01	961599-02	982893-02	116839 00	536635 00	102094 01

$M_1 = 1.0000 \quad M_2 = 12.000 \quad \gamma = 0.0833$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1667	0.9986	0.0333	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0208	-0.1663	0.9911	0.0712	0.0027	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0023	0.0222	-0.1985	0.9806	0.1102	0.0063	0.0003	0.0000	0.0000	0.0000	0.0000
4	0.0002	-0.0026	0.0296	-0.2346	0.9668	0.1492	0.0116	0.0006	0.0000	0.0000	0.0000
5	-0.0000	0.0003	-0.0038	0.0392	-0.2713	0.9498	0.1878	0.0184	0.0012	0.0001	0.0001
6	0.0000	0.0000	0.0005	-0.0055	0.0506	-0.3074	0.9295	0.2255	0.0269	0.0021	0.0002
7	0.0000	0.0000	-0.0000	0.0008	-0.0078	0.0634	-0.3426	0.9062	0.2620	0.0369	0.0034
8	0.0000	0.0000	0.0001	-0.0000	0.0011	-0.0105	0.0778	-0.3764	0.8798	0.2971	0.0483
9	0.0000	0.0000	0.0001	0.0000	-0.0001	0.0016	-0.0140	0.0935	-0.4085	0.8506	0.3307
10	0.0000	0.0001	0.0000	0.0000	0.0001	0.0430	0.0023	-0.0181	0.1102	-0.4388	0.8187

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	166666 00	995826 00	-331490-01	175884-02	-117220-03	-307927-05	-169781-05	-508133-05	-452026-05	-531791-05	-116288-04
2	694789-02	166328 00	989078 00	-706826-01	521882-02	-403078-03	213191-04	-255156-04	-162174-04	733607-06	-555835-05
3	-961209-05	111073-01	198910 00	978772 00	-109170 00	103320-01	-970573-03	592054-04	-120103-04	-636483-05	-116771-04
4	-128360-04	326217-03	177844-01	235549 00	965095 00	-147565 00	170361-01	-178228-02	165447-03	-366721-04	-161877-06
5	-216747-04	-412383-04	839643-03	262848-01	272914 00	948077 00	-185338 00	253494-01	-303186-02	287386-03	-861737-04
6	-223363-04	-767667-04	-230915-05	173830-02	363866-01	309843 00	927909 00	-222145 00	351116-01	-465656-02	529386-03
7	-850489-05	-405436-04	-118384-04	251014-04	305199-02	484437-01	345831 00	904600 00	-257639 00	461551-01	-727247-02
8	-361251-04	-501566-04	-701750-04	-132946-03	-630059-03	200468-02	618461-01	380683 00	878431 00	-290508 00	639847-01
9	-517807-04	505149-05	-759237-04	387463-03	428958-02	151881-01	399891-02	762640-01	412909 00	840284 00	-364079 00
10	-589259-04	-122637-03	-973339-04	-118529-02	-120602-01	-417605-01	862789-02	891006-02	973909-01	490467 00	101754 01

$M_1 = 1.0000 \quad M_2 = 13.000 \quad \gamma = 0.0769$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1538	0.9988	0.0308	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0178	-0.1536	0.9924	0.0658	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0018	0.0189	-0.1834	0.9835	0.1019	0.0054	0.0002	0.0000	0.0000	0.0000	0.0000
4	0.0002	-0.0021	0.0252	-0.2170	0.9717	0.1381	0.0099	0.0005	0.0000	0.0000	0.0000
5	-0.0000	0.0003	-0.0030	0.0334	-0.2513	0.9572	0.1739	0.0158	0.0009	0.0001	0.0001
6	0.0000	0.0000	0.0003	-0.0044	0.0432	-0.2853	0.9398	0.2092	0.0230	0.0016	0.0001
7	0.0000	0.0000	-0.0000	0.0006	-0.0061	0.0543	-0.3184	0.9198	0.2435	0.0316	0.0027
8	0.0000	0.0000	0.0001	-0.0000	0.0008	-0.0083	0.0667	-0.3506	0.8972	0.2768	0.0414
9	0.0000	0.0000	0.0001	0.0000	0.0000	0.0012	-0.0111	0.0802	-0.3815	0.8720	0.3088
10	0.0000	0.0001	0.0000	0.0000	0.0000	0.0398	0.0017	-0.0143	0.0948	-0.4108	0.8445

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	153845 00	996443 00	-306263-01	149785-02	-933709-04	-525560-05	-140253-05	-496042-05	-406699-05	-466464-05	-106701-04
2	591924-02	153579 00	990688 00	-653506-01	445158-02	-318426-03	135364-04	-230971-04	-169787-04	871801-06	-535657-05
3	-874928-05	946392-02	183757 00	981897 00	-101038 00	882416-02	-770971-03	365150-04	-924570-05	-619771-05	-105208-04
4	-107825-04	255857-03	151548-01	217774 00	970222 00	-136751 00	145621-01	-140775-02	118497-03	-303991-04	-266761-05
5	-201560-04	-414748-04	654662-03	224145-01	252581 00	955672 00	-172027 00	217005-01	-239968-02	202405-03	-707050-04
6	-198709-04	-708011-04	-685554-05	136666-02	310480-01	287140 00	938412 00	-206572 00	300979-01	-368610-02	369298-03
7	-719017-05	-377492-04	-108562-04	122198-05	238322-02	413401-01	321005 00	918422 00	-240086 00	396499-01	-570223-02
8	-362868-04	-453095-04	-694725-04	-984121-04	-437522-03	155666-02	528123-01	354009 00	895901 00	-271681 00	543500-01
9	-491257-04	294541-05	-755881-04	256544-03	328780-02	129765-01	314859-02	652450-01	385070 00	864294 00	-335120 00
10	-514664-04	-111223-03	-808725-04	-943813-03	-103270-01	-387593-01	729081-02	698311-02	827744-01	451629 00	101492 01

$M_1 = 1.0000 \quad M_2 = 14.000 \quad \gamma = 0.0714$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1429	0.9990	0.0286	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0153	-0.1426	0.9935	0.0611	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0014	0.0163	-0.1705	0.9858	0.0947	0.0046	0.0002	0.0000	0.0000	0.0000	0.0000
4	0.0001	-0.0017	0.0218	-0.2019	0.9756	0.1284	0.0085	0.0004	0.0000	0.0000	0.0000
5	0.0000	0.0002	-0.0024	0.0289	-0.2340	0.9630	0.1620	0.0136	0.0008	0.0000	0.0001
6	0.0000	0.0000	0.0003	-0.0035	0.0374	-0.2659	0.9480	0.1951	0.0199	0.0014	0.0001
7	0.0000	0.0000	-0.0000	0.0004	-0.0049	0.0470	-0.2973	0.9307	0.2274	0.0273	0.0021
8	0.0000	0.0000	0.0001	-0.0000	0.0006	-0.0066	0.0577	-0.3279	0.9111	0.2589	0.0358
9	0.0000	0.0000	0.0001	0.0000	0.0000	0.0009	-0.0089	0.0696	-0.3575	0.8892	0.2894
10	0.0000	0.0001	0.0000	0.0000	0.0000	0.0370	0.0013	-0.0115	0.0823	-0.3858	0.8652

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	142857 00	996933 00	-284587-01	129040-02	-757541-04	-675972-05	-119460-05	-486285-05	-369962-05	-415169-05	-986135-05
2	510325-02	142642 00	991966 00	-607601-01	384105-02	-256042-03	829543-05	-211743-04	-175768-04	953090-06	-519229-05
3	-803410-05	815993-02	170740 00	984380 00	-940174-01	762243-02	-623453-03	209788-04	-739905-05	-600040-05	-959705-05
4	-937515-05	204247-03	130669-01	202472 00	974299 00	-127380 00	125866-01	-113127-02	861845-04	-268958-04	-424578-05
5	-188255-04	-416610-04	519195-03	193387-01	235027 00	961718 00	-160438 00	187808-01	-192792-02	154672-03	-636572-04
6	-179008-04	-657068-04	-977988-05	109349-02	267988-01	267464 00	946784 00	-192941 00	260508-01	-302586-02	282116-03
7	-618313-05	-355145-04	-994768-05	-138933-04	189829-02	356871-01	299387 00	929459 00	-224623 00	343867-01	-454802-02
8	-364843-04	-413642-04	-695647-04	-805068-04	-327564-03	123321-02	456147-01	330651 00	909890 00	-254856 00	467482-01
9	-465737-04	139248-05	-727305-04	183066-03	261833-02	112040-01	252330-02	564333-01	360441 00	883249 00	-310483 00
10	-456482-04	-101823-03	-684102-04	-757425-03	-891033-02	-361513-01	624312-02	557382-02	712283-01	418554 00	101284 01

$M_1 = 1.0000 \quad M_2 = 15.000 \quad \gamma = 0.0667$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1333	0.9991	0.0267	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0133	-0.1332	0.9943	0.0570	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0012	0.0142	-0.1592	0.9876	0.0884	0.0040	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0001	-0.0013	0.0190	-0.1887	0.9787	0.1201	0.0075	0.0003	0.0000	0.0000	0.0000
5	0.0000	0.0002	-0.0019	0.0252	-0.2189	0.9678	0.1515	0.0119	0.0006	0.0000	0.0001
6	0.0000	0.0000	0.0002	-0.0028	0.0326	-0.2490	0.9546	0.1826	0.0174	0.0011	0.0001
7	0.0000	0.0000	-0.0000	0.0004	-0.0040	0.0410	-0.2787	0.9395	0.2132	0.0239	0.0018
8	0.0000	0.0000	0.0001	0.0000	0.0005	-0.0054	0.0505	-0.3078	0.9223	0.2430	0.0313
9	0.0000	0.0000	0.0001	0.0000	0.0000	0.0007	-0.0073	0.0609	-0.3361	0.9031	0.2721
10	0.0000	0.0001	0.0000	0.0000	0.0000	0.0346	0.0010	-0.0094	0.0721	-0.3634	0.8821

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	133333 00	997329 00	-265765-01	112281-02	-624483-04	-782664-05	-104168-05	-478371-05	-339500-05	-374077-05	-916852-05
2	444537-02	133160 00	992999 00	-567679-01	334733-02	-209212-03	469603-05	-195976-04	-180568-04	998046-06	-505747-05
3	-122584-04	706838-02	159406 00	986387 00	-878967-01	665356-02	-512671-03	101091-04	-614568-05	-586700-05	-881646-05
4	-930712-05	157959-03	113752-01	189164 00	977583 00	-119232 00	109918-01	-923476-03	639420-04	-236843-04	-572911-05
5	-177344-04	-424853-04	417221-03	168540-01	219723 00	966598 00	-150267 00	164083-01	-157536-02	113253-03	-554183-04
6	-163135-04	-613374-04	-117323-04	888296-03	233627-01	250261 00	953565 00	-180925 00	227791-01	-247896-02	204544-03
7	-539999-05	-337022-04	-917341-05	-242797-04	153591-02	311165-01	280416 00	938410 00	-210916 00	301048-01	-369082-02
8	-366805-04	-380745-04	-697471-04	-681232-04	-250793-03	991878-03	397892-01	310063 00	921257 00	-239798 00	406414-01
9	-441771-04	189649-06	-695548-04	132309-03	211662-02	976941-02	205268-02	492809-01	338567 00	898480 00	-289259 00
10	-410154-04	-939241-04	-592031-04	-617546-03	-776705-02	-338615-01	540587-02	451931-02	619470-01	390037 00	101117 01

$M_1 = 1.0000 \quad M_2 = 16.000 \quad \gamma = 0.0625$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1250	0.9992	0.0250	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0117	-0.1249	0.9950	0.0535	0.0015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0010	0.0125	-0.1493	0.9891	0.0830	0.0036	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0001	-0.0011	0.0167	-0.1771	0.9813	0.1127	0.0066	0.0002	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0016	0.0222	-0.2056	0.9717	0.1423	0.0104	0.0005	0.0000	0.0000
6	0.0000	0.0000	0.0002	-0.0023	0.0287	-0.2341	0.9601	0.1717	0.0153	0.0009	0.0001
7	0.0000	0.0000	-0.0000	0.0003	-0.0033	0.0361	-0.2622	0.9467	0.2006	0.0210	0.0014
8	0.0000	0.0000	0.0001	0.0000	0.0004	-0.0045	0.0445	-0.2900	0.9316	0.2289	0.0276
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0005	-0.0060	0.0537	-0.3170	0.9146	0.2566
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0324	0.0008	-0.0078	0.0637	-0.3432	0.8960

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	125000 00	997652 00	-249270-01	985502-03	-522047-04	-860660-05	-925389-06	-471915-05	-313920-05	-340705-05	-856866-05
2	390676-02	124857 00	993843 00	-532647-01	294254-02	-173124-03	212787-05	-182679-04	-184498-04	101927-05	-494579-05
3	-113978-04	620813-02	149506 00	988029 00	-825168-01	585453-02	-426818-03	220820-05	-524335-05	-575291-05	-815922-05
4	-846919-05	128980-03	999615-02	177488 00	980285 00	-112010 00	967467-02	-763127-03	479391-04	-212708-04	-689763-05
5	-166789-04	-425131-04	339962-03	148185-01	206273 00	970610 00	-141281 00	144560-01	-130416-02	835428-04	-492522-04
6	-150060-04	-574832-04	-130067-04	731213-03	205454-01	235102 00	959131 00	-170268 00	200822-01	-205731-02	149062-03
7	-477507-05	-322119-04	-846275-05	-312756-04	125963-02	273691-01	263650 00	945766 00	-198711 00	265655-01	-303671-02
8	-368753-04	-353204-04	-705592-04	-631618-04	-195566-03	808161-03	350089-01	291804 00	930614 00	-226287 00	356613-01
9	-419519-04	-563636-06	-617963-04	126416-03	173090-02	859265-02	169176-02	433985-01	319055 00	910904 00	-270778 00
10	-372678-04	-879328-04	-691950-04	-622382-03	-682190-02	-318382-01	472606-02	371449-02	543730-01	365190 00	100981 01

$M_1 = 1.0000 \quad M_2 = 17.000 \quad \gamma = 0.0588$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1176	0.9993	0.0235	0.0003	0.0000	0.0000	0.0000	0.0000	0.0007	0.0000	0.0000
2	0.0104	-0.1175	0.9956	0.0504	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0008	0.0111	-0.1406	0.9903	0.0781	0.0031	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0001	-0.0009	0.0148	-0.1668	0.9834	0.1062	0.0058	0.0002	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0013	0.0197	-0.1938	0.9749	0.1342	0.0093	0.0004	0.0000	0.0000
6	0.0000	0.0000	0.0001	-0.0020	0.0255	-0.2208	0.9646	0.1619	0.0136	0.0008	0.0001
7	0.0000	0.0000	0.0000	0.0002	-0.0027	0.0321	-0.2476	0.9527	0.1894	0.0187	0.0012
8	0.0000	0.0000	0.0001	0.0000	0.0003	-0.0037	0.0395	-0.2740	0.9393	0.2163	0.0245
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0004	-0.0050	0.0477	-0.2998	0.9242	0.2427
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0305	0.0006	-0.0065	0.0566	-0.3250	0.9076

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	117647 00	997920 00	-234697-01	871634-03	-440769-04	-963311-05	-218158-04	-190888-03	-637087-03	142233-03	-295388-04
2	343524-02	117528 00	994543 00	-501664-01	260652-02	-145229-03	-223415-05	-401495-04	-102012-03	-797360-05	-167601-06
3	-142208-04	549518-02	140761 00	989390 00	-777516-01	519071-02	-359763-03	-478618-05	-927506-05	-854212-05	-669678-05
4	-806443-05	106493-03	885283-02	167162 00	982526 00	-105601 00	857937-02	-637946-03	361434-04	-196204-04	-777020-05
5	-157464-04	-425379-04	280041-03	131302-01	194359 00	973941 00	-133287 00	128303-01	-109308-02	620000-04	-445067-04
6	-139205-04	-540883-04	-138613-04	608958-03	182069-01	221650 00	963757 00	-160757 00	178457-01	-172979-02	108908-03
7	-426530-05	-309704-04	-789745-05	-366439-04	104538-02	242588-01	248731 00	951863 00	-187857 00	236246-01	-253123-02
8	-370467-04	-329268-04	-706439-04	-558502-04	-155536-03	665941-03	310379-01	275508 00	938385 00	-214120 00	315454-01
9	-398945-04	-135992-05	-594400-04	970588-04	143369-02	761518-02	141033-02	385029-01	301566 00	921175 00	-254537 00
10	-341883-04	-820464-04	-618752-04	-532379-03	-604725-02	-300372-01	416619-02	308952-02	481107-01	343343 00	100868 01

$M_1 = 1.0000 \quad M_2 = 18.000 \quad \gamma = 0.0556$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1111	0.9994	0.0222	0.0003	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0000
2	0.0093	-0.1110	0.9961	0.0476	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0007	0.0099	-0.1328	0.9914	0.0738	0.0028	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0001	-0.0008	0.0132	-0.1577	0.9852	0.1004	0.0052	0.0002	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0011	0.0175	-0.1833	0.9776	0.1269	0.0083	0.0004	0.0000	0.0000
6	0.0000	0.0000	0.0001	-0.0016	0.0228	-0.2089	0.9684	0.1532	0.0121	0.0007	0.0001
7	0.0000	0.0000	0.0000	0.0002	-0.0023	0.0287	-0.2344	0.9578	0.1793	0.0167	0.0010
8	0.0000	0.0000	0.0001	0.0000	0.0002	-0.0031	0.0353	-0.2596	0.9458	0.2049	0.0219
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0003	-0.0042	0.0427	-0.2843	0.9322	0.2302
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0288	0.0005	-0.0055	0.0507	-0.3085	0.9174

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	111111 00	998145 00	-221730-01	776100-03	-377261-04	-997903-05	-184529-04	-171209-03	-606008-03	127373-03	-256714-04
2	306397-02	111010 00	995129 00	-474070-01	232459-02	-122882-03	-308124-05	-355803-04	-937974-04	-939508-05	-352131-06
3	-130087-04	489772-02	132980 00	990532 00	-735023-01	463337-02	-306395-03	-890847-05	-804692-05	-825167-05	-634187-05
4	-753903-05	887870-04	789443-02	157966 00	984406 00	-998763-01	765893-02	-538773-03	274551-04	-180816-04	-854915-05
5	-149035-04	-425598-04	232886-03	117144-01	183736 00	976737 00	-126133 00	114632-01	-924809-03	457587-04	-406940-04
6	-130082-04	-510733-04	-144397-04	512387-03	162446-01	209634 00	967640 00	-152230 00	159511-01	-146706-02	786119-04
7	-385054-05	-299313-04	-740725-05	-406094-04	876649-03	216492-01	235383 00	957006 00	-178027 00	211287-01	-213050-02
8	-372098-04	-308505-04	-707534-04	-502087-04	-125763-03	554192-03	277049-01	260895 00	944941 00	-203132 00	281054-01
9	-379998-04	-200198-05	-570878-04	751307-04	119942-02	679467-02	118787-02	343876-01	285825 00	929761 00	-240148 00
10	-316293-04	-769237-04	-560148-04	-460597-03	-539799-02	-284253-01	369954-02	259693-02	428734-01	323979 00	100774 01

$M_1 = 1.0000 \quad M_2 = 19.000 \quad \gamma = 0.0526$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.1053	0.9994	0.0211	0.0003	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0000
2	0.0083	-0.1052	0.9965	0.0451	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0006	0.0089	-0.1259	0.9923	0.0700	0.0025	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0007	0.0119	-0.1495	0.9867	0.0952	0.0047	0.0001	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0009	0.0158	-0.1738	0.9799	0.1203	0.0074	0.0003	0.0000	0.0000
6	0.0000	0.0000	0.0001	-0.0014	0.0204	-0.1982	0.9716	0.1454	0.0109	0.0006	0.0001
7	0.0000	0.0000	0.0000	0.0002	-0.0020	0.0258	-0.2225	0.9621	0.1703	0.0150	0.0009
8	0.0000	0.0000	0.0001	0.0000	0.0002	-0.0027	0.0318	-0.2465	0.9513	0.1947	0.0197
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0003	-0.0036	0.0384	-0.2703	0.9391	0.2188
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0273	0.0004	-0.0047	0.0456	-0.2935	0.9257

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	105263 00	998336 00	-210117-01	695199-03	-326079-04	-102469-04	-157432-04	-154412-03	-577594-03	114680-03	-225389-04
2	274727-02	105153 00	995626 00	-449341-01	208574-02	-104955-03	-370250-05	-318186-04	-867392-04	-104107-04	-554702-06
3	-123071-04	438905-02	126012 00	991498 00	-696901-01	416091-02	-263464-03	-120495-04	-706677-05	-798617-05	-602476-05
4	-714894-05	744925-04	708316-02	149724 00	985998 00	-947338-01	687813-02	-459211-03	208855-04	-168158-04	-919452-05
5	-141445-04	-425848-04	195296-03	105154-01	174206 00	979106 00	-119696 00	103025-01	-789674-03	334642-04	-375820-04
6	-122363-04	-483772-04	-148282-04	435100-03	145822-01	198840 00	970933 00	-144543 00	143413-01	-125575-02	556576-04
7	-350393-05	-290504-04	-697712-05	-435874-04	741998-03	194387-01	223374 00	961384 00	-169148 00	190050-01	-181032-02
8	-373537-04	-290264-04	-708669-04	-457339-04	-103313-03	463481-03	248601-01	247636 00	950523 00	-193168 00	252004-01
9	-362554-04	-253144-05	-547985-04	584812-04	101233-02	609878-02	100398-02	308709-01	271595 00	937014 00	-227311 00
10	-294774-04	-724232-04	-512547-04	-402549-03	-484846-02	-269748-01	330559-02	219993-02	384492-01	306696 00	100694 01

$M_1 = 1.0000 \quad M_2 = 21.000 \quad \gamma = 0.0476$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0952	0.9995	0.0191	0.0002	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000	0.0000
2	0.0068	-0.0952	0.9971	0.0408	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0004	0.0073	-0.1140	0.9937	0.0633	0.0021	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0005	0.0097	-0.1354	0.9891	0.0862	0.0038	0.0001	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0007	0.0129	-0.1575	0.9835	0.1090	0.0061	0.0002	0.0000	0.0000
6	0.0000	0.0000	0.0001	-0.0010	0.0168	-0.1798	0.9767	0.1319	0.0089	0.0004	0.0001
7	0.0001	0.0000	0.0000	0.0001	-0.0015	0.0211	-0.2020	0.9689	0.1546	0.0123	0.0006
8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0020	0.0261	-0.2240	0.9600	0.1769	0.0162
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002	-0.0027	0.0316	-0.2459	0.9500	0.1991
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0247	0.0003	-0.0035	0.0375	-0.2674	0.9390

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	952383-01	998637 00	-190188-01	566584-03	-251763-04	-133906-04	-267111-04	-125639-03	-527775-03	943091-04	-178367-04
2	224873-02	951523-01	996415 00	-406865-01	170583-02	-787325-04	-594322-05	-258951-04	-753890-04	-116030-04	-962033-05
3	-105944-04	358639-02	114055 00	993034 00	-631341-01	340892-02	-199832-03	-163828-04	-562464-05	-752420-05	-547810-05
4	-653784-05	538470-04	579408-02	135570 00	988535 00	-858761-01	563437-02	-341689-03	119256-04	-148407-04	-101965-04
5	-134694-04	-426194-04	139983-03	860248-02	157764 00	982878 00	-108587 00	845169-02	-589754-03	166782-04	-327778-04
6	-113098-05	-437606-04	-153137-04	320017-03	119285-01	180248 00	976174 00	-131244 00	117711-01	-942482-03	242291-04
7	-758253-04	-276454-04	-625472-05	-477332-04	543590-03	159225-01	202642 00	968331 00	-153741 00	156089-01	-133963-02
8	-545202-04	-259834-04	-710871-04	-391048-04	-725836-04	333829-03	203679-01	224852 00	959397 00	-175811 00	205966-01
9	-350735-04	-334538-05	-505363-04	355726-04	737559-03	499244-02	742677-03	253093-01	246890 00	948510 00	-205378 00
10	-262073-04	-648816-04	-440499-04	-315515-03	-397410-02	-244711-01	268468-02	162256-02	314341-01	277154 00	100567 01

$M_1 = 1.0000 \quad M_2 = 22.000 \quad \gamma = 0.0455$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0909	0.9996	0.0182	0.0002	0.0000	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000
2	0.0062	-0.0908	0.9974	0.0389	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0004	0.0066	-0.1088	0.9942	0.0605	0.0019	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0004	0.0089	-0.1293	0.9901	0.0823	0.0035	0.0001	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0006	0.0118	-0.1504	0.9850	0.1042	0.0055	0.0002	0.0000	0.0000
6	0.0000	0.0000	0.0001	-0.0009	0.0153	-0.1718	0.9788	0.1260	0.0081	0.0004	0.0001
7	0.0001	0.0000	0.0000	0.0001	-0.0013	0.0193	-0.1931	0.9717	0.1477	0.0112	0.0006
8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0017	0.0238	-0.2142	0.9636	0.1692	0.0148
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002	-0.0022	0.0288	-0.2352	0.9544	0.1905
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0236	0.0003	-0.0030	0.0342	-0.2559	0.9443

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	909093-01	998759 00	-181574-01	514990-03	-222890-04	-132877-04	-245871-04	-115025-03	-505695-03	860582-04	-160491-04
2	204888-02	908324-01	996731 00	-388493-01	155336-02	-688141-04	-608511-05	-236988-04	-707668-04	-119184-04	-115453-05
3	-990581-05	326460-02	108888 00	993651 00	-602954-01	310694-02	-175951-03	-178983-04	-508188-05	-732624-05	-524075-05
4	-633194-05	462147-04	527714-02	129447 00	989550 00	-820355-01	513454-02	-297856-03	884470-05	-140498-04	-105908-04
5	-128179-04	-426320-04	119712-03	783857-02	150670 00	984391 00	-103762 00	770729-02	-515079-03	109003-04	-308779-04
6	-150613-05	-417691-04	-154135-04	277884-03	108681-01	172187 00	978279 00	-125457 00	107364-01	-825237-03	133561-04
7	-724533-04	-270811-04	-594535-05	-490920-04	470480-03	145111-01	193637 00	971123 00	-147022 00	142398-01	-116486-02
8	-531342-04	-246981-04	-711895-04	-365640-04	-618050-04	289030-03	185815-01	214935 00	962966 00	-168217 00	187548-01
9	-334556-04	-366010-05	-485798-04	276166-04	634833-03	453107-02	547839-03	230859-01	236110 00	953110 00	-195933 00
10	-248368-04	-616861-04	-412930-04	-282646-03	-362445-02	-233885-01	240982-02	141178-02	286263-01	264429 00	100517 01

$M_1 = 1.0000 \quad M_2 = 23.000 \quad \gamma = 0.0435$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0870	0.9996	0.0174	0.0002	0.0000	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000
2	0.0057	-0.0869	0.9976	0.0372	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0003	0.0061	-0.1041	0.9947	0.0578	0.0017	0.0001	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0004	0.0081	-0.1237	0.9909	0.0788	0.0032	0.0001	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0005	0.0108	-0.1439	0.9863	0.0997	0.0051	0.0002	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0008	0.0140	-0.1645	0.9806	0.1206	0.0074	0.0003	0.0001
7	0.0001	0.0000	0.0000	0.0001	-0.0011	0.0176	-0.1849	0.9741	0.1415	0.0103	0.0005
8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0015	0.0218	-0.2052	0.9666	0.1621	0.0135
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	-0.0019	0.0264	-0.2255	0.9582	0.1825
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0226	0.0002	-0.0026	0.0314	-0.2454	0.9490

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	869567-01	998864 00	-173706-01	469963-03	-198648-04	-131880-04	-227509-04	-105740-03	-485304-03	788245-04	-145370-04
2	187454-02	868876-01	997007 00	-371704-01	142026-02	-605300-04	-618188-05	-218168-04	-667064-04	-121068-04	-133604-05
3	-930298-05	298386-02	104168 00	994188 00	-576997-01	284324-02	-155943-03	-191147-04	-462678-05	-714722-05	-502295-05
4	-616422-05	398792-04	482610-02	123853 00	990436 00	-785212-01	469791-02	-261260-03	639656-05	-133519-04	-109325-04
5	-122270-04	-426436-04	102901-03	717191-02	144183 00	985711 00	-993434-01	705673-02	-452678-03	630469-05	-292177-04
6	-183678-05	-399504-04	-154706-04	242779-03	994246-02	164810 00	980117 00	-120152 00	983170-02	-727138-03	467889-05
7	-693660-04	-265864-04	-566590-05	-501692-04	409698-03	132793-01	185391 00	973562 00	-140855 00	130420-01	-101929-02
8	-519257-04	-235358-04	-712836-04	-343947-04	-534119-04	248997-03	170052-01	205847 00	966085 00	-161234 00	171498-01
9	-319820-04	-393267-05	-467415-04	212734-04	550476-03	414463-02	470449-03	211314-01	226214 00	957119 00	-187324 00
10	-236451-04	-588004-04	-389470-04	-254899-03	-331907-02	-223920-01	219644-02	123297-02	261792-01	252826 00	100472 01

$M_1 = 1.0000 \quad M_2 = 24.000 \quad \gamma = 0.0417$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0833	0.9997	0.0167	0.0002	0.0000	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000
2	0.0052	-0.0833	0.9978	0.0357	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0003	0.0056	-0.0998	0.9952	0.0554	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0003	0.0075	-0.1186	0.9917	0.0755	0.0029	0.0001	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0005	0.0099	-0.1380	0.9874	0.0956	0.0047	0.0002	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0007	0.0129	-0.1577	0.9822	0.1157	0.0068	0.0003	0.0000
7	0.0001	0.0000	0.0000	0.0001	-0.0010	0.0162	-0.1774	0.9762	0.1357	0.0095	0.0004
8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0013	0.0200	-0.1969	0.9694	0.1555	0.0124
9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	-0.0017	0.0243	-0.2164	0.9616	0.1752
10	0.0000	0.0001	0.0000	0.0001	0.0000	0.0216	0.0002	-0.0023	0.0288	-0.2356	0.9531

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	833335-01	998957 00	-166490-01	430434-03	-178124-04	-130951-04	-211570-04	-975690-04	-466428-03	724486-04	-132470-04
2	172153-02	832709-01	997250 00	-356302-01	130339-02	-535543-04	-624432-05	-201914-04	-631204-04	-121985-04	-150535-05
3	-856453-05	273995-02	998397-01	994660 00	-553173-01	261164-02	-139045-03	-201020-04	-424072-05	-698525-05	-482265-05
4	-971760-05	-968961-05	443094-02	118720 00	991215 00	-752936-01	431429-02	-230462-03	445326-05	-127346-04	-112277-04
5	-122048-04	-488282-04	889536-04	658667-02	138230 00	986870 00	-952821-01	648493-02	-400119-03	261723-05	-277519-04
6	-215969-05	-386905-04	-154907-04	213296-03	912967-02	158036 00	981732 00	-115271 00	903613-02	-644412-03	-231882-05
7	-665285-04	-261709-04	-541119-05	-510309-04	358744-03	121978-01	177812 00	975704 00	-135175 00	119880-01	-897071-03
8	-508631-04	-224793-04	-713708-04	-325131-04	-466644-04	215544-03	156208-01	197485 00	968827 00	-154794 00	157426-01
9	-306319-04	-419119-05	-450151-04	161501-04	479811-03	380526-02	405764-03	194139-01	217098 00	960634 00	-179443 00
10	-225932-04	-560425-04	-369364-04	-231283-03	-305106-02	-214762-01	200959-02	108293-02	240333-01	242202 00	100434 01

$M_1 = 1.0000 \quad M_2 = 26.000 \quad \gamma = 0.0385$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.0769	0.9997	0.0154	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
	2	0.0044	-0.0769	0.9981	0.0330	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0002	0.0048	-0.0921	0.9959	0.0512	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	-0.0002	0.0064	-0.1095	0.9929	0.0697	0.0025	0.0001	0.0000	0.0000	0.0000
	5	0.0000	0.0001	-0.0004	0.0084	-0.1275	0.9893	0.0883	0.0040	0.0001	0.0000	0.0000
	6	0.0000	0.0000	0.0000	-0.0005	0.0110	-0.1458	0.9848	0.1069	0.0058	0.0002	0.0000
	7	0.0001	0.0000	0.0000	0.0001	-0.0008	0.0138	-0.1640	0.9797	0.1255	0.0081	0.0003
	8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0010	0.0171	-0.1822	0.9739	0.1439	0.0106
	9	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	-0.0013	0.0207	-0.2003	0.9673	0.1622
	10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0200	0.0002	-0.0018	0.0246	-0.2183	0.9600

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	769232-01	999111 00	-153717-01	364595-03	-145587-04	-129282-04	-185361-04	-839246-04	-432634-03	617800-04	-111780-04
	2	146681-02	768711-01	997653 00	-329026-01	110868-02	-425860-04	-628523-05	-172988-04	-558405-04	-123668-04	-179407-05
	3	-770888-05	232937-02	921782-01	995446 00	-510956-01	222563-02	-112872-03	-287539-04	-418776-04	-107476-05	-499383-05
	4	-895824-05	-145701-04	377156-02	109630 00	992511 00	-695696-01	367462-02	-182889-03	-265102-05	-110523-04	-117748-04
	5	-111531-04	-479205-04	676257-04	561763-02	127679 00	988802 00	-880726-01	553105-02	-317683-03	-278107-05	-252745-04
	6	-263399-05	-358061-04	-214084-04	103223-03	777880-02	146021 00	984423 00	-106597 00	770828-02	-514085-03	-126937-04
	7	-614920-04	-254695-04	-595308-05	-629679-04	279691-03	103959-01	164358 00	979277 00	-125068 00	102276-01	-705666-03
	8	-490989-04	-206379-04	-716012-04	-302595-04	-366804-04	163530-03	133138-01	182626 00	973400 00	-143313 00	134025-01
	9	-282499-04	-457266-05	-418827-04	851097-05	369557-03	323975-02	305204-03	165497-01	200875 00	966480 00	-165522 00
	10	-208741-04	-514841-04	-336875-04	-193644-03	-260479-02	-198506-01	169933-02	848146-03	204640-01	223434 00	100369 01

$M_1 = 1.0000 \quad M_2 = 27.000 \quad \gamma = 0.0370$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.0741	0.9997	0.0148	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
	2	0.0041	-0.0740	0.9983	0.0317	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0002	0.0044	-0.0887	0.9962	0.0493	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	-0.0002	0.0059	-0.1055	0.9934	0.0672	0.0023	0.0001	0.0000	0.0000	0.0000
	5	0.0000	0.0001	-0.0003	0.0078	-0.1228	0.9900	0.0851	0.0037	0.0001	0.0000	0.0000
	6	0.0000	0.0000	0.0000	-0.0004	0.0102	-0.1405	0.9859	0.1030	0.0054	0.0002	0.0000
	7	0.0001	0.0000	0.0000	0.0001	-0.0007	0.0128	-0.1581	0.9812	0.1209	0.0075	0.0004
	8	0.0000	0.0000	0.0001	0.0000	0.0001	-0.0009	0.0159	-0.1756	0.9758	0.1387	0.0098
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0012	0.0192	-0.1932	0.9696	0.1564
	10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0192	0.0002	-0.0016	0.0229	-0.2105	0.9629

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	740742-01	999176 00	-148038-01	337015-03	-132593-04	-128538-04	-174488-04	-781927-04	-417446-03	572922-04	-103338-04
	2	136015-02	740263-01	997822 00	-316893-01	102710-02	-382455-04	-629468-05	-162297-04	-533938-04	-122683-04	-193046-05
	3	-734476-05	215743-02	887716-01	995775 00	-492166-01	206385-02	-102198-03	-287937-04	-402946-04	-135590-05	-477533-05
	4	-864667-05	-162993-04	349541-02	105587 00	993054 00	-670203-01	340644-02	-163692-03	-342197-05	-106552-04	-119564-04
	5	-106943-04	-475488-04	590270-04	520890-02	122984 00	989611 00	-848591-01	513095-02	-284960-03	-488798-05	-246581-04
	6	-283369-05	-344461-04	-209674-04	873114-04	721116-02	140670 00	985551 00	-102727 00	715120-02	-460492-03	-760197-05
	7	-592447-04	-251577-04	-564926-05	-626534-04	248554-03	964259-02	158361 00	980775 00	-120555 00	946998-02	-715778-03
	8	-483608-04	-198281-04	-716568-04	-288532-04	-329678-04	143492-03	123469-01	175995 00	975318 00	-138181 00	124082-01
	9	-271916-04	-472676-05	-404573-04	566187-05	326300-03	300279-02	265914-03	153485-01	193627 00	968925 00	-159346 00
	10	-201551-04	-494821-04	-323561-04	-178420-03	-241790-02	-191260-01	156973-02	755704-03	189707-01	215104 00	100342 01

$M_1 = 1.0000 \quad M_2 = 28.000 \quad \gamma = 0.0357$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.0714	0.9998	0.0143	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
	2	0.0038	-0.0714	0.9984	0.0306	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0002	0.0041	-0.0856	0.9965	0.0476	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	-0.0002	0.0055	-0.1018	0.9939	0.0648	0.0022	0.0000	0.0000	0.0000	0.0000
	5	0.0000	0.0001	-0.0003	0.0073	-0.1185	0.9907	0.0821	0.0034	0.0001	0.0000	0.0000
	6	0.0000	0.0000	0.0000	-0.0004	0.0095	-0.1355	0.9869	0.0994	0.0050	0.0002	0.0000
	7	0.0001	0.0000	0.0000	0.0001	-0.0006	0.0119	-0.1525	0.9825	0.1167	0.0070	0.0004
	8	0.0000	0.0000	0.0001	0.0000	0.0000	-0.0008	0.0148	-0.1695	0.9775	0.1339	0.0091
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0010	0.0179	-0.1864	0.9717	0.1510
	10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0186	0.0001	-0.0015	0.0213	-0.2032	0.9655

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	714276-01	999219 00	-142760-01	312326-03	-121297-04	-127848-04	-164794-04	-730552-04	-403253-03	532630-04	-959999-05
	2	126464-02	713834-01	997973 00	-305621-01	954076-03	-344951-04	-629487-05	-152808-04	-511953-04	-121410-04	-205728-05
	3	-701647-05	200355-02	856076-01	996070 00	-474706-01	191901-02	-929429-04	-287969-04	-388284-04	-160602-05	-457850-05
	4	-837138-05	-176734-04	324830-02	101831 00	993540 00	-646504-01	316632-02	-147120-03	-403782-05	-102912-04	-121323-04
	5	-102730-04	-472147-04	516642-04	484311-02	118620 00	990336 00	-818702-01	477262-02	-256676-03	-654157-05	-236426-04
	6	-301180-05	-331851-04	-205624-04	737641-04	670311-02	135696 00	986561 00	-991258-01	665195-02	-415989-03	-114525-04
	7	-571557-04	-248815-04	-537865-05	-623552-04	221566-03	896675-02	152783 00	982117 00	-116351 00	880875-02	-647796-03
	8	-477007-04	-190806-04	-717082-04	-275894-04	-299191-04	126039-03	114814-01	169825 00	977036 00	-133394 00	115340-01
	9	-262099-04	-486518-05	-391177-04	328170-05	289130-03	279066-02	232264-03	142729-01	186878 00	971112 00	-153614 00
	10	-195186-04	-476305-04	-311832-04	-165102-03	-225067-02	-184521-01	145391-02	676088-03	176351-01	207374 00	100318 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$M_1 = 1.0000 \quad M_2 = 29.000 \quad \gamma = 0.0345$

U	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1	-0.0690	0.9998	0.0138	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
	2	0.0036	-0.0689	0.9985	0.0295	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	3	-0.0002	0.0038	-0.0826	0.9967	0.0459	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000
	4	0.0000	-0.0001	0.0051	-0.0983	0.9943	0.0626	0.0020	0.0000	0.0000	0.0000	0.0000
	5	0.0000	0.0001	-0.0003	0.0068	-0.1144	0.9914	0.0793	0.0032	0.0001	0.0000	0.0000
	6	0.0000	0.0000	0.0000	-0.0003	0.0088	-0.1309	0.9878	0.0960	0.0047	0.0002	0.0000
	7	0.0001	0.0000	0.0000	0.0001	-0.0005	0.0111	-0.1473	0.9837	0.1127	0.0065	0.0003
	8	0.0000	0.0000	0.0001	0.0000	0.0000	-0.0007	0.0138	-0.1638	0.9790	0.1293	0.0085
	9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0009	0.0167	-0.1802	0.9736	0.1459
	10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0179	0.0001	-0.0013	0.0198	-0.1965	0.9678

U^{-1}	L \ L'	0	1	2	3	4	5	6	7	8	9	10
	0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
	1	689646-01	999272 00	-137848-01	290148-03	-111422-04	-127209-04	-156114-04	-684345-04	-389974-03	496363-04	-895269-05
	2	117891-02	689237-01	998109 00	-295122-01	888457-03	-312363-04	-628801-05	-144331-04	-492150-04	-119929-04	-217557-05
	3	-671552-05	186535-02	826612-01	996335 00	-458437-01	178885-02	-848742-04	-287745-04	-374668-04	-183112-05	-439822-05
	4	-812661-05	-187611-04	302630-02	983330-01	993976 00	-624416-01	295048-02	-132738-03	-453320-05	-995192-05	-122908-04
	5	-988489-05	-469149-04	453217-04	451445-02	114555 00	990987 00	-790833-01	445045-02	-232109-03	-792001-05	-227167-04
	6	-317367-05	-320159-04	-201913-04	621734-04	624657-02	131060 00	987469 00	-957661-01	620298-02	-377285-03	-147252-04
	7	-552094-04	-246364-04	-513330-05	-620614-04	198230-03	835946-02	147583 00	983322 00	-112427 00	821390-02	-588686-03
	8	-471087-04	-183887-04	-717553-04	-264473-04	-273750-04	111004-03	107036-01	164069 00	978581 00	-128922 00	107490-01
	9	-252970-04	-499098-05	-378602-04	128055-05	257028-03	260002-02	203295-03	133060-01	180577 00	973076 00	-148282 00
	10	-189426-04	-459134-04	-301443-04	-153387-03	-210043-02	-178237-01	135000-02	607146-03	164358-01	200182 00	100296 01
	L \ L'	0	1	2	3	4	5	6	7	8	9	10

$M_1 = 1.0000 \quad M_2 = 30.000 \quad \gamma = 0.0333$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0667	0.9998	0.0133	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
2	0.0033	-0.0666	0.9986	0.0286	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0001	0.0036	-0.0799	0.9969	0.0444	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0001	0.0048	-0.0950	0.9947	0.0605	0.0019	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0002	0.0063	-0.1107	0.9919	0.0766	0.0030	0.0001	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0003	0.0083	-0.1266	0.9886	0.0928	0.0044	0.0002	0.0000
7	0.0001	0.0000	0.0000	0.0001	-0.0005	0.0104	-0.1425	0.9847	0.1090	0.0061	0.0003
8	0.0000	0.0000	0.0001	0.0000	0.0000	-0.0007	0.0129	-0.1584	0.9804	0.1251	0.0080
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0008	0.0156	-0.1743	0.9754	0.1411
10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0173	0.0001	-0.0012	0.0186	-0.1901	0.9699

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	666659-01	999319 00	-133262-01	270148-03	-102746-04	-126623-04	-148293-04	-642624-04	-377522-03	463595-04	-837883-05
2	110162-02	666278-01	998231 00	-285319-01	829276-03	-283910-04	-627566-05	-136724-04	-474229-04	-118293-04	-228434-05
3	-644038-05	174073-02	799106-01	996574 00	-443244-01	167143-02	-778034-04	-287322-04	-361994-04	-203390-05	-423200-05
4	-790776-05	-196156-04	282611-02	950666-01	994370 00	-603780-01	275575-02	-120196-03	-493325-05	-963691-05	-124333-04
5	-952482-05	-466450-04	398371-04	421807-02	110759 00	991574 00	-764788-01	415973-02	-210664-03	-907660-05	-218657-04
6	-331892-05	-309269-04	-198516-04	522147-04	583482-02	126728 00	988287 00	-926249-01	579775-02	-343459-03	-175208-04
7	-533894-04	-244134-04	-490900-05	-617758-04	177947-03	781174-02	142722 00	984410 00	-108756 00	767688-02	-537029-03
8	-465736-04	-177472-04	-717997-04	-254053-04	-252352-04	979937-04	100020-01	158688 00	979974 00	-124737 00	100416-01
9	-244460-04	-510209-05	-366733-04	-415869-06	229173-03	242807-02	178243-03	124335-01	174683 00	974846 00	-143308 00
10	-184262-04	-443205-04	-292200-04	-143027-03	-196497-02	-172365-01	125640-02	547155-03	153549-01	193473 00	100277 01

$M_1 = 1.0000 \quad M_2 = 31.000 \quad \gamma = 0.0323$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0645	0.9998	0.0129	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
2	0.0031	-0.0645	0.9987	0.0276	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0001	0.0034	-0.0773	0.9971	0.0430	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0001	0.0045	-0.0920	0.9950	0.0585	0.0018	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0001	-0.0002	0.0059	-0.1071	0.9924	0.0742	0.0028	0.0001	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0003	0.0077	-0.1225	0.9893	0.0899	0.0041	0.0002	0.0000
7	0.0001	0.0000	0.0000	0.0001	-0.0004	0.0097	-0.1380	0.9857	0.1056	0.0057	0.0003
8	0.0000	0.0000	0.0001	0.0000	0.0000	-0.0006	0.0121	-0.1534	0.9816	0.1212	0.0075
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0008	0.0146	-0.1688	0.9769	0.1367
10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0168	0.0001	-0.0011	0.0174	-0.1841	0.9718

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	645154-01	999363 00	-128971-01	252050-03	-950852-05	-126076-04	-141219-04	-604831-04	-365817-03	434244-04	-787233-05
2	103169-02	644799-01	998342 00	-276146-01	775716-03	-258955-04	-626104-05	-129859-04	-457981-04	-116500-04	-238502-05
3	-618748-05	162798-02	773371-01	996790 00	-429023-01	156516-02	-715790-04	-286775-04	-350146-04	-221315-05	-407805-05
4	-771190-05	-202779-04	264497-02	920099-01	994727 00	-584460-01	257947-02	-109207-03	-525613-05	-934073-05	-125624-04
5	-919158-05	-464008-04	350729-04	394987-02	107205 00	992106 00	-740394-01	389652-02	-191856-03	-100339-04	-210849-04
6	-345077-05	-299094-04	-195379-04	436254-04	546219-02	122673 00	989028 00	-896816-01	543069-02	-314279-03	-198470-04
7	-516856-04	-242124-04	-470591-05	-615010-04	160238-03	731609-02	138170 00	985395 00	-105314 00	720059-02	-493112-03
8	-460865-04	-171474-04	-718363-04	-244529-04	-234502-04	864600-04	936695-02	153644 00	981220 00	-120905 00	941520-02
9	-236497-04	-520185-05	-355562-04	-186271-05	204890-03	227241-02	156485-03	116435-01	169155 00	976430 00	-138656 00
10	-179591-04	-428335-04	-283901-04	-133821-03	-184240-02	-166866-01	117181-02	494696-03	143770-01	187199 00	100259 01

$M_1 = 1.0000 \quad M_2 = 32.000 \quad \gamma = 0.0313$

U

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	-0.0625	0.9998	0.0125	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000
2	0.0029	-0.0625	0.9988	0.0268	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	-0.0001	0.0032	-0.0749	0.9973	0.0416	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	-0.0001	0.0042	-0.0891	0.9953	0.0567	0.0017	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	-0.0002	0.0056	-0.1038	0.9929	0.0719	0.0026	0.0001	0.0000	0.0000
6	0.0000	0.0000	0.0000	-0.0002	0.0073	-0.1187	0.9900	0.0871	0.0039	0.0001	0.0000
7	0.0001	0.0000	0.0000	0.0001	-0.0004	0.0092	-0.1337	0.9866	0.1023	0.0054	0.0003
8	0.0000	0.0000	0.0001	0.0000	0.0000	-0.0005	0.0113	-0.1487	0.9827	0.1175	0.0070
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	-0.0007	0.0138	-0.1637	0.9783	0.1325
10	0.0000	0.0000	0.0000	0.0001	0.0000	0.0162	0.0001	-0.0010	0.0163	-0.1785	0.9735

U^{-1}

L \ L'	0	1	2	3	4	5	6	7	8	9	10
0	100000 01	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02	000000 02
1	624994-01	999402 00	-124948-01	235619-03	-882907-05	-125575-04	-134788-04	-570496-04	-354808-03	407215-04	-741429-05
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