

A Numerical Table of the Laguerre Polynomials

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A Numerical Table of the Laguerre Polynomials

Masao Yoshida

By the Laguerre polynomial of the n -th degree we mean the polynomial defined by the following:

$$L_n(x) = e^x \frac{d^n}{dx^n} (x^n e^{-x}) .$$

In this report the present writer gives a table of the numerical values of the polynomials $L_n(x)$, $n = 2, 3, 4, 5, 6$ and 7 ; from $x = 0.00$ to $x = 1.00$ at intervals of 0.01 , from $x = 1.00$ to $x = 5.00$ at intervals of 0.05 , and from $x = 5.0$ to $x = 10.0$ at intervals of 0.1 .

Numerical values of the $L_n(x)$ given in this table are exact except those for $n = 6$ and 7 from $x = 0.00$ to $x = 5.00$, which are correct to ten decimal places with the possible errors less than half one unit in the last place.

x	$L_2(x)$	$L_3(x)$	$L_4(x)$	$L_5(x)$	x
0.00	2.0000	6.000 000	24.0000 0000	120.00000 00000	0.00
0.01	1.9601	5.820 899	23.0471 8401	114.05980 02499	0.01
0.02	1.9204	5.643 592	22.1086 7216	108.25840 39968	0.02
0.03	1.8809	5.468 073	21.1843 6881	102.53462 02257	0.03
0.04	1.8416	5.294 336	20.2741 7856	96.94726 38976	0.04
0.05	1.8025	5.122 375	19.3780 0625	91.47515 59375	0.05
0.06	1.7636	4.952 184	18.4957 5696	86.11712 32224	0.06
0.07	1.7249	4.783 757	17.6273 3601	80.87199 85693	0.07
0.08	1.6864	4.617 088	16.7726 4896	75.73862 07232	0.08
0.09	1.6481	4.452 171	15.9316 0161	70.71583 43451	0.09
0.10	1.6100	4.289 000	15.1041 0000	65.80249 00000	0.10
0.11	1.5721	4.127 569	14.2900 5041	60.99744 41449	0.11
0.12	1.5344	3.967 872	13.4893 5936	56.29955 91168	0.12
0.13	1.4969	3.809 903	12.7019 3361	51.70770 31207	0.13
0.14	1.4596	3.653 656	11.9276 8016	47.22075 02176	0.14
0.15	1.4225	3.499 125	11.1665 0625	42.83758 03125	0.15
0.16	1.3856	3.346 304	10.4183 1936	38.55707 91424	0.16
0.17	1.3489	3.195 187	9.6830 2721	34.37818 82643	0.17
0.18	1.3124	3.045 768	8.9605 3776	30.29965 50432	0.18
0.19	1.2761	2.898 041	8.2507 5921	26.32053 26401	0.19
0.20	1.2400	2.752 000	7.5536 0000	22.43968 00000	0.20
0.21	1.2041	2.607 639	6.8689 6881	18.65601 18399	0.21
0.22	1.1684	2.464 952	6.1967 7456	14.96844 86368	0.22
0.23	1.1329	2.323 933	5.5369 2641	11.37591 66157	0.23
0.24	1.0976	2.184 576	4.8893 3376	7.87734 77376	0.24
0.25	1.0625	2.046 875	4.2539 0625	4.47167 96875	0.25
0.26	1.0276	1.910 824	3.6305 5376	1.15785 58624	0.26
0.27	0.9929	1.776 417	3.0191 8641	- 2.06517 46407	0.27
0.28	0.9584	1.643 648	2.4197 1456	- 5.19845 70368	0.28
0.29	0.9241	1.512 511	1.8320 4881	- 8.24303 08649	0.29
0.30	0.8900	1.383 000	1.2561 0000	-11.19993 00000	0.30
0.31	0.8561	1.255 109	0.6917 7921	-14.07018 26651	0.31
0.32	0.8224	1.128 832	0.1389 9776	-16.85481 14432	0.32
0.33	0.7889	1.004 163	-0.4023 3279	-19.55483 32893	0.33
0.34	0.7556	0.881 096	-0.9323 0064	-22.17125 95424	0.34
0.35	0.7225	0.759 625	-1.4509 9375	-24.70509 59375	0.35
0.36	0.6896	0.639 744	-1.9584 9984	-27.15734 26176	0.36
0.37	0.6569	0.521 447	-2.4549 0639	-29.52899 41457	0.37
0.38	0.6244	0.404 728	-2.9403 0064	-31.82103 95168	0.38
0.39	0.5921	0.289 581	-3.4147 6959	-34.03446 21699	0.39
0.40	0.5600	0.176 000	-3.8784 0000	-36.17024 00000	0.40
0.41	0.5281	0.063 979	-4.3312 7839	-38.22934 53701	0.41
0.42	0.4964	-0.046 488	-4.7734 9104	-40.21274 51232	0.42
0.43	0.4649	-0.155 407	-5.2051 2399	-42.12140 05943	0.43
0.44	0.4336	-0.262 784	-5.6262 6304	-43.95626 76224	0.44
0.45	0.4025	-0.368 625	-6.0369 9375	-45.71829 65625	0.45
0.46	0.3716	-0.472 936	-6.4374 0144	-47.40843 22976	0.46
0.47	0.3409	-0.575 723	-6.8275 7119	-49.02761 42507	0.47
0.48	0.3104	-0.676 992	-7.2075 8784	-50.57677 63968	0.48
0.49	0.2801	-0.776 749	-7.5775 3599	-52.05684 72749	0.49
0.50	0.2500	-0.875 000	-7.9375 0000	-53.46875 00000	0.50

x	$L_2(x)$	$L_3(x)$	$L_4(x)$	$L_5(x)$	x
0.50	0.2500	-0.875 000	- 7.9375 0000	-53.46875 00000	0.50
0.51	0.2201	-0.971 751	- 8.2875 6399	-54.81340 22751	0.51
0.52	0.1904	-1.067 008	- 8.6278 1184	-56.09171 64032	0.52
0.53	0.1609	-1.160 777	- 8.9583 2719	-57.30459 92993	0.53
0.54	0.1316	-1.253 064	- 9.2791 9344	-58.45295 25024	0.54
0.55	0.1025	-1.343 875	- 9.5904 9375	-59.53767 21875	0.55
0.56	0.0736	-1.433 216	- 9.8923 1104	-60.55964 91776	0.56
0.57	0.0449	-1.521 093	-10.1847 2799	-61.51976 89557	0.57
0.58	0.0164	-1.607 512	-10.4678 2704	-62.41891 16768	0.58
0.59	-0.0119	-1.692 479	-10.7416 9039	-63.25795 21799	0.59
0.60	-0.0400	-1.776 000	-11.0064 0000	-64.03776 00000	0.60
0.61	-0.0679	-1.858 081	-11.2620 3759	-64.75919 93801	0.61
0.62	-0.0956	-1.938 728	-11.5086 8464	-65.42312 92832	0.62
0.63	-0.1231	-2.017 947	-11.7464 2239	-66.03040 34043	0.63
0.64	-0.1504	-2.095 744	-11.9753 3184	-66.58187 01824	0.64
0.65	-0.1775	-2.172 125	-12.1954 9375	-67.07837 28125	0.65
0.66	-0.2044	-2.247 096	-12.4069 8864	-67.52074 92576	0.66
0.67	-0.2311	-2.320 663	-12.6098 9679	-67.90983 22607	0.67
0.68	-0.2576	-2.392 832	-12.8042 9824	-68.24644 93568	0.68
0.69	-0.2839	-2.463 609	-12.9902 7279	-68.53142 28849	0.69
0.70	-0.3100	-2.533 000	-13.1679 0000	-68.76557 00000	0.70
0.71	-0.3359	-2.601 011	-13.3372 5919	-68.94970 26851	0.71
0.72	-0.3616	-2.667 648	-13.4984 2944	-69.08462 77632	0.72
0.73	-0.3871	-2.732 917	-13.6514 8959	-69.17114 69093	0.73
0.74	-0.4124	-2.796 824	-13.7965 1824	-69.21005 66624	0.74
0.75	-0.4375	-2.859 375	-13.9335 9375	-69.20214 84375	0.75
0.76	-0.4624	-2.920 576	-14.0627 9424	-69.14820 85376	0.76
0.77	-0.4871	-2.980 433	-14.1841 9759	-69.04901 81657	0.77
0.78	-0.5116	-3.038 952	-14.2978 8144	-68.90535 34368	0.78
0.79	-0.5359	-3.096 139	-14.4039 2319	-68.71798 53899	0.79
0.80	-0.5600	-3.152 000	-14.5024 0000	-68.48768 00000	0.80
0.81	-0.5839	-3.206 541	-14.5933 8879	-68.21519 81901	0.81
0.82	-0.6076	-3.259 768	-14.6769 6624	-67.90129 58432	0.82
0.83	-0.6311	-3.311 687	-14.7532 0879	-67.54672 38143	0.83
0.84	-0.6544	-3.362 304	-14.8221 9264	-67.15222 79424	0.84
0.85	-0.6775	-3.411 625	-14.8839 9375	-66.71854 90625	0.85
0.86	-0.7004	-3.459 656	-14.9386 8784	-66.24642 30176	0.86
0.87	-0.7231	-3.506 403	-14.9863 5039	-65.73658 06707	0.87
0.88	-0.7453	-3.551 872	-15.0270 5664	-65.18974 79168	0.88
0.89	-0.7679	-3.596 069	-15.0608 8159	-64.60664 56949	0.89
0.90	-0.7900	-3.639 000	-15.0879 0000	-63.98799 00000	0.90
0.91	-0.8119	-3.680 671	-15.1081 8639	-63.33449 18951	0.91
0.92	-0.8336	-3.721 088	-15.1218 1504	-62.64685 75232	0.92
0.93	-0.8551	-3.760 257	-15.1288 5999	-61.95278 81193	0.93
0.94	-0.8764	-3.798 184	-15.1293 9504	-61.17198 00224	0.94
0.95	-0.8975	-3.834 875	-15.1234 9375	-60.38612 46875	0.95
0.96	-0.9184	-3.870 336	-15.1112 2944	-59.56890 86976	0.96
0.97	-0.9391	-3.904 573	-15.0926 7519	-58.72101 37757	0.97
0.98	-0.9586	-3.937 592	-15.0679 0384	-57.84311 67968	0.98
0.99	-0.9799	-3.969 399	-15.0369 8799	-56.93588 97999	0.99
1.00	-1.0000	-4.000 000	-15.0000 0000	-56.00000 00000	1.00

x	$L_2(x)$	$L_3(x)$	$L_4(x)$	$L_5(x)$	x
1.00	-1.0000	-4.000 000	-15.0000 0000	-56.00000 00000	1.00
1.05	-1.0975	-4.135 125	-14.7264 9375	-50.91362 53125	1.05
1.10	-1.1900	-4.241 000	-14.3119 0000	-45.20801 00000	1.10
1.15	-1.2775	-4.318 375	-13.7649 9375	-38.96120 09375	1.15
1.20	-1.3600	-4.368 000	-13.0944 0000	-32.24832 00000	1.20
1.25	-1.4375	-4.390 625	-12.3085 9375	-25.14160 15625	1.25
1.30	-1.5100	-4.387 000	-11.4159 0000	-17.71043 00000	1.30
1.35	-1.5775	-4.357 875	-10.4244 9375	-10.02137 71875	1.35
1.40	-1.6400	-4.304 000	-9.3424 0000	-2.13824 00000	1.40
1.45	-1.6975	-4.226 125	-8.1774 9375	5.87792 21875	1.45
1.50	-1.7500	-4.125 000	-6.9375 0000	13.96875 00000	1.50
1.55	-1.7975	-4.001 375	-5.6299 9375	22.07854 65625	1.55
1.60	-1.8400	-3.856 000	-4.2624 0000	30.15424 00000	1.60
1.65	-1.8775	-3.689 625	-2.8419 9375	38.14534 59375	1.65
1.70	-1.9100	-3.503 000	-1.3759 0000	46.00393 00000	1.70
1.75	-1.9375	-3.296 875	0.1289 0625	53.68457 03125	1.75
1.80	-1.9600	-3.072 000	1.6656 0000	61.14432 00000	1.80
1.85	-1.9775	-2.829 125	3.2275 0625	68.34266 96875	1.85
1.90	-1.9900	-2.569 000	4.8081 0000	75.24151 00000	1.90
1.95	-1.9975	-2.292 375	6.4010 0625	81.80509 40625	1.95
2.00	-2.0000	-2.000 000	8.0000 0000	88.00000 00000	2.00
2.05	-1.9975	-1.692 625	9.5990 0625	93.79509 34375	2.05
2.10	-1.9900	-1.371 000	11.1921 0000	99.16149 00000	2.10
2.15	-1.9775	-1.035 875	12.7735 0625	104.07251 78125	2.15
2.20	-1.9600	-0.688 000	14.3376 0000	108.50368 00000	2.20
2.25	-1.9375	-0.328 125	15.8789 0625	112.43261 71875	2.25
2.30	-1.9100	0.043 000	17.3921 0000	115.83907 00000	2.30
2.35	-1.8775	0.424 625	18.8720 0625	118.70484 15625	2.35
2.40	-1.8400	0.816 000	20.3136 0000	121.01376 00000	2.40
2.45	-1.7975	1.216 375	21.7120 0625	122.75164 09375	2.45
2.50	-1.7500	1.625 000	23.0625 0000	123.90625 00000	2.50
2.55	-1.6975	2.041 125	24.3605 0625	124.46726 53125	2.55
2.60	-1.6400	2.464 000	25.6016 0000	124.42624 00000	2.60
2.65	-1.5775	2.892 875	26.7815 0625	123.77656 46875	2.65
2.70	-1.5100	3.327 000	27.8961 0000	122.51343 00000	2.70
2.75	-1.4375	3.765 625	28.9414 0625	120.63378 90625	2.75
2.80	-1.3600	4.208 000	29.9136 0000	118.13632 00000	2.80
2.85	-1.2775	4.653 375	30.8090 0625	115.02133 84375	2.85
2.90	-1.1900	5.101 000	31.6241 0000	111.29101 00000	2.90
2.95	-1.0975	5.550 125	32.3555 0625	106.94881 28125	2.95
3.00	-1.0000	6.000 000	33.0000 0000	102.00000 00000	3.00
3.05	-0.8975	6.449 875	33.5545 0625	96.45131 21875	3.05
3.10	-0.7900	6.899 000	34.0161 0000	90.31099 00000	3.10
3.15	-0.6775	7.346 625	34.3820 0625	83.58873 65625	3.15
3.20	-0.5600	7.792 000	34.6496 0000	76.29568 00000	3.20
3.25	-0.4375	8.234 375	34.8164 0625	68.44433 59375	3.25
3.30	-0.3100	8.673 000	34.8801 0000	60.04857 00000	3.30
3.35	-0.1775	9.107 125	34.8385 0625	51.12356 03125	3.35
3.40	-0.0400	9.536 000	34.6896 0000	41.68576 00000	3.40
3.45	0.1025	9.958 875	34.4315 0625	31.75285 96875	3.45
3.50	0.2500	10.375 000	34.0625 0000	21.34375 00000	3.50

x	$L_2(x)$	$L_3(x)$	$L_4(x)$	$L_5(x)$	x
3.50	0.2500	10.375 000	34.0625 0000	21.34375 00000	3.50
3.55	0.4025	10.783 625	33.5810 0625	10.47848 40625	3.55
3.60	0.5600	11.184 000	32.9856 0000	- 0.82176 00000	3.60
3.65	0.7225	11.575 375	32.2750 0625	- 12.53471 65625	3.65
3.70	0.8900	11.957 000	31.4481 0000	- 24.63707 00000	3.70
3.75	1.0625	12.328 125	30.5039 0625	- 37.10449 21875	3.75
3.80	1.2400	12.688 000	29.4416 0000	- 49.91168 00000	3.80
3.85	1.4225	13.035 875	28.2605 0625	- 63.03239 28125	3.85
3.90	1.6100	13.371 000	26.9601 0000	- 76.43949 00000	3.90
3.95	1.8025	13.692 625	25.5400 0625	- 90.10496 84375	3.95
4.00	2.0000	14.000 000	24.0000 0000	-104.00000 00000	4.00
4.05	2.2025	14.292 375	22.3400 0625	-118.09496 90625	4.05
4.10	2.4100	14.569 000	20.5601 0000	-132.35951 00000	4.10
4.15	2.6225	14.829 125	18.6605 0625	-146.76254 46875	4.15
4.20	2.8400	15.072 000	16.6416 0000	-161.27232 00000	4.20
4.25	3.0625	15.296 875	14.5039 0625	-175.85644 53125	4.25
4.30	3.2900	15.503 000	12.2481 0000	-190.48193 00000	4.30
4.35	3.5225	15.689 625	9.8750 0625	-205.11522 09375	4.35
4.40	3.7600	15.856 000	7.3856 0000	-219.72224 00000	4.40
4.45	4.0025	16.001 375	4.7810 0625	-234.26842 15625	4.45
4.50	4.2500	16.125 000	2.0625 0000	-248.71875 00000	4.50
4.55	4.5025	16.226 125	- 0.7684 9375	-263.03779 71875	4.55
4.60	4.7600	16.304 000	- 3.7104 0000	-277.18976 00000	4.60
4.65	5.0225	16.357 875	- 6.7614 9375	-291.13349 78125	4.65
4.70	5.2900	16.387 000	- 9.9199 0000	-304.84757 00000	4.70
4.75	5.5625	16.390 625	-13.1835 9375	-318.28027 34375	4.75
4.80	5.8400	16.368 000	-16.5504 0000	-331.39968 00000	4.80
4.85	6.1225	16.318 375	-20.0179 9375	-344.16867 40625	4.85
4.90	6.4100	16.241 000	-23.5339 0000	-356.54999 00000	4.90
4.95	6.7025	16.135 125	-27.2454 9375	-368.50624 96875	4.95
5.0	7.00	16.000	- 31.0000	-380.00000	5.0
5.1	7.61	15.639	- 38.7759	-401.45001	5.1
5.2	8.24	15.152	- 46.8864	-420.60032	5.2
5.3	8.89	14.533	- 55.3039	-437.15243	5.3
5.4	9.56	13.776	- 63.9984	-450.81024	5.4
5.5	10.25	12.875	- 72.9375	-461.28125	5.5
5.6	10.96	11.824	- 82.0864	-468.27776	5.6
5.7	11.69	10.617	- 91.4079	-471.51807	5.7
5.8	12.44	9.248	-100.8624	-470.72768	5.8
5.9	13.21	7.711	-110.4079	-465.64049	5.9
6.0	14.00	6.000	-120.0000	-456.00000	6.0
6.1	14.81	4.109	-129.5919	-441.56051	6.1
6.2	15.64	2.032	-139.1344	-422.08832	6.2
6.3	16.49	- 0.237	-148.5759	-397.36293	6.3
6.4	17.36	- 2.704	-157.8624	-367.17824	6.4
6.5	18.25	- 5.375	-166.9375	-331.34375	6.5
6.6	19.16	- 8.256	-175.7424	-289.68576	6.6
6.7	20.09	-11.353	-184.2159	-242.04857	6.7
6.8	21.04	-14.672	-192.2944	-188.29568	6.8
6.9	22.01	-18.219	-199.9119	-128.31099	6.9
7.0	23.00	-22.000	-207.0000	- 62.00000	7.0

x	$L_2(x)$	$L_3(x)$	$L_4(x)$	$L_5(x)$	x
7.0	23.00	- 22.000	-207.0000	- 62.00000	7.0
7.1	24.01	- 26.021	-213.4879	10.70899	7.1
7.2	25.04	- 30.288	-219.3024	89.86368	7.2
7.3	26.09	- 34.807	-224.3679	179.48657	7.3
7.4	27.16	- 39.584	-228.6064	267.57376	7.4
7.5	28.25	- 44.625	-231.9375	366.09375	7.5
7.6	29.36	- 49.936	-234.2784	470.98624	7.6
7.7	30.49	- 55.523	-235.5439	582.16093	7.7
7.8	31.64	- 61.392	-235.6464	699.49632	7.8
7.9	32.81	- 67.549	-234.4959	822.83851	7.9
8.0	34.00	- 74.000	-232.0000	952.00000	8.0
8.1	35.21	- 80.751	-228.0639	1086.75849	8.1
8.2	36.44	- 87.808	-222.5904	1226.85568	8.2
8.3	37.69	- 95.177	-215.4799	1371.99607	8.3
8.4	38.96	-102.864	-206.6304	1521.84576	8.4
8.5	40.25	-110.875	-195.9375	1676.03125	8.5
8.6	41.56	-119.216	-183.2944	1834.13824	8.6
8.7	42.89	-127.893	-168.5919	1995.71043	8.7
8.8	44.24	-136.912	-151.7184	2160.24832	8.8
8.9	45.61	-146.279	-132.5599	2327.20801	8.9
9.0	47.00	-156.000	-111.0000	2496.00000	9.0
9.1	48.41	-166.081	- 86.9199	2665.98799	9.1
9.2	49.84	-176.528	- 60.1984	2836.48768	9.2
9.3	51.29	-187.347	- 30.7119	3006.76557	9.3
9.4	52.76	-198.544	1.6656	3176.03776	9.4
9.5	54.25	-210.125	37.0625	3343.46875	9.5
9.6	55.76	-222.096	75.6096	3508.17024	9.6
9.7	57.29	-234.463	117.4401	3669.19993	9.7
9.8	58.84	-247.232	162.6896	3825.56032	9.8
9.9	60.41	-260.409	211.4961	3976.19751	9.9
10.0	62.00	-274.000	264.0000	4120.00000	10.0

x	$L_6(x)$	x	$L_7(x)$
0.00	720.00000 00000	0.00	5040.00000 00000
0.01	677.33760 44964	0.01	4692.46267 34118
0.02	635.74087 18849	0.02	4355.33397 31807
0.03	595.19556 36259	0.03	4028.44013 21031
0.04	555.68754 83177	0.04	3711.60912 58837
0.05	517.20280 12656	0.05	3404.67066 26398
0.06	479.72740 40531	0.06	3107.45617 24401
0.07	443.24754 41124	0.07	2819.79879 68792
0.08	407.74951 42973	0.08	2541.53337 86865
0.09	373.21971 24550	0.09	2272.49645 13710
0.10	339.64464 10000	0.10	2012.52622 89000
0.11	307.01090 64880	0.11	1761.46259 54134
0.12	275.30521 91908	0.12	1519.14709 49725
0.13	244.51439 26720	0.13	1285.42292 13436
0.14	214.62534 33631	0.14	1060.13490 78163
0.15	185.62509 01406	0.15	843.12951 70570
0.16	157.50075 39036	0.16	634.25483 09960
0.17	130.23955 71524	0.17	433.36054 07501
0.18	103.82882 35674	0.18	240.29793 65792
0.19	78.25597 75895	0.19	54.91989 78777
0.20	53.50854 40000	0.20	- 122.91911 68000
0.21	29.57414 75025	0.21	- 293.36307 96792
0.22	6.44051 23047	0.22	- 456.55440 36707
0.23	- 15.90453 82989	0.23	- 612.63395 22423
0.24	- 37.47308 23434	0.24	- 761.74104 92557
0.25	- 58.27709 96094	0.25	- 904.01348 87695
0.26	- 78.32847 20378	0.26	- 1039.58754 48083
0.27	- 97.63898 41447	0.27	- 1168.59798 10970
0.28	- 116.22032 34345	0.28	- 1291.17806 07620
0.29	- 134.08408 08131	0.29	- 1407.45955 59978
0.30	- 151.24175 10000	0.30	- 1517.57275 77000
0.31	- 167.70473 29399	0.31	- 1621.64648 50640
0.32	- 183.48433 02134	0.32	- 1719.80809 51504
0.33	- 198.59175 14468	0.33	- 1812.18349 24165
0.34	- 213.03811 07220	0.34	- 1898.89713 82139
0.35	- 226.83442 79844	0.35	- 1980.07206 02523
0.36	- 239.99162 94513	0.36	- 2055.82986 20304
0.37	- 252.52054 80188	0.37	- 2126.29073 22321
0.38	- 264.43192 36684	0.38	- 2191.57345 40906
0.39	- 275.73640 38726	0.39	- 2251.79541 47176
0.40	- 286.44454 40000	0.40	- 2307.07261 44000
0.41	- 296.56680 77194	0.41	- 2357.51967 58631
0.42	- 306.11356 74035	0.42	- 2403.24985 35003
0.43	- 315.09510 45318	0.43	- 2444.37504 25693
0.44	- 323.52161 00925	0.44	- 2481.00578 83560
0.45	- 331.40318 49844	0.45	- 2513.25129 53039
0.46	- 338.74984 04167	0.46	- 2541.21943 61119
0.47	- 345.57149 83090	0.47	- 2565.01676 07975
0.48	- 351.87799 16943	0.48	- 2584.74850 57283
0.49	- 357.67906 51092	0.49	- 2600.51860 26197
0.50	- 362.98437 00000	0.50	- 2612.42968 75000

x	$L_6(x)$	x	$L_7(x)$
0.50	-362.98437 50000	0.50	-2612.42968 75000
0.51	-367.80439 01158	0.51	-2620.58310 96427
0.52	-372.14589 19055	0.52	-2625.07894 04659
0.53	-376.02097 49137	0.53	-2626.01598 23987
0.54	-379.43804 71751	0.54	-2623.49177 77154
0.55	-382.40633 06094	0.55	-2617.60261 73367
0.56	-384.93496 14141	0.56	-2608.44354 95984
0.57	-387.03299 04580	0.57	-2596.10838 89871
0.58	-388.70938 36723	0.58	-2580.68972 48446
0.59	-389.97302 24428	0.59	-2562.27893 00382
0.60	-390.83270 40000	0.60	-2540.96616 96000
0.61	-391.29714 18092	0.61	-2516.84040 93329
0.62	-391.37496 59596	0.62	-2489.98942 43848
0.63	-391.07472 35526	0.63	-2460.49980 77908
0.64	-390.40487 90897	0.64	-2428.45697 89818
0.65	-389.37381 48594	0.65	-2393.94519 22633
0.66	-387.98983 13236	0.66	-2357.04754 52594
0.67	-386.26114 75030	0.67	-2317.84598 73272
0.68	-384.19590 13622	0.68	-2276.42132 79372
0.69	-381.80215 01933	0.69	-2232.85324 50234
0.70	-379.08787 10000	0.70	-2187.22029 33000
0.71	-376.06096 08797	0.71	-2139.59991 25477
0.72	-372.72923 74057	0.72	-2090.06843 58667
0.73	-369.10043 90085	0.73	-2038.70109 78996
0.74	-365.18222 53562	0.74	-1985.57204 30209
0.75	-360.98217 77344	0.75	-1930.75433 34961
0.76	-356.50779 94250	0.76	-1874.31995 76087
0.77	-351.76651 60851	0.77	-1816.33983 77557
0.78	-346.76567 61241	0.78	-1756.88383 85117
0.79	-341.51255 10809	0.79	-1696.02077 46611
0.80	-336.01433 60000	0.80	-1633.81841 92000
0.81	-330.27814 98071	0.81	-1570.34351 13052
0.82	-324.31103 56838	0.82	-1505.66176 42732
0.83	-318.11996 14414	0.83	-1439.83787 34274
0.84	-311.71181 98948	0.84	-1372.93552 39942
0.85	-305.09342 92344	0.85	-1305.01739 89477
0.86	-298.27153 33985	0.86	-1236.14518 68238
0.87	-291.25280 24442	0.87	-1166.37958 95028
0.88	-284.04383 29180	0.88	-1095.78032 99616
0.89	-276.65114 82254	0.89	-1024.40615 99937
0.90	-269.08119 90000	0.90	-952.31486 79000
0.91	-261.34036 34716	0.91	-879.56328 61475
0.92	-253.43494 78339	0.92	-806.20729 89978
0.93	-245.37118 66114	0.93	-732.30185 01042
0.94	-237.15524 30253	0.94	-657.90095 00792
0.95	-228.79320 93594	0.95	-583.05768 40305
0.96	-220.29110 73239	0.96	-507.82421 90662
0.97	-211.65488 84203	0.97	-432.25181 17707
0.98	-202.89043 43039	0.98	-356.39081 56485
0.99	-194.00355 71470	0.99	-280.29068 85391
1.00	-185.00000 00000	1.00	-204.00000 00000

x	$L_6(x)$	x	$L_7(x)$
1.00	-185.00000 00000	1.00	- 204.00000 00000
1.05	-138.42822 81094	1.05	178.67318 53430
1.10	- 89.76179 90000	1.10	559.32295 19000
1.15	- 39.64298 54844	1.15	932.83385 57602
1.20	11.32646 40000	1.20	1294.59179* 52000
1.25	62.58422 85157	1.25	1640.46234 13086
1.30	113.60632 90000	1.30	1966.76952 93000
1.35	163.90605 38906	1.35	2270.27510 65758
1.40	213.03289 60000	1.40	2548.15823 36000
1.45	260.57150 06406	1.45	2797.99563 36492
1.50	306.14062 50000	1.50	3017.74218 75000
1.55	349.39210 87656	1.55	3205.71196 91164
1.60	390.00985 60000	1.60	3360.55971 84000
1.65	427.70882 82656	1.65	3481.26274 70648
1.70	462.23404 90000	1.70	3567.10327 37000
1.75	493.35961 91406	1.75	3617.65118 40820
1.80	520.88774 40000	1.80	3632.74721 28000
1.85	544.64777 13906	1.85	3612.48654 22555
1.90	564.49524 10000	1.90	3557.20281 51000
1.95	580.31094 50156	1.95	3467.45255 61727
2.00	592.00000 00000	2.00	3344.00000 00000
2.05	599.49093 00156	2.05	3187.80231 99211
2.10	602.73476 10000	2.10	2999.99525 49000
2.15	601.70412 63906	2.15	2711.87913 00883
2.20	596.39238 40000	2.20	2544.90526 72000
2.25	586.81274 41406	2.25	2260.66278 07617
2.30	572.99740 90000	2.30	1960.86575 63000
2.35	554.99672 32656	2.35	1637.34080 65289
2.40	532.87833 60000	2.40	1292.01500 16000
2.45	506.72637 37656	2.45	926.90416 94773
2.50	476.64062 50000	2.50	544.10156 25000
2.55	442.73573 56406	2.55	145.76688 61945
2.60	405.14041 60000	2.60	- 265.88431 36000
2.65	363.99665 88906	2.65	- 688.59090 92320
2.70	319.45896 90000	2.70	-1120.05609 93000
2.75	271.69360 35156	2.75	-1557.95697 02148
2.80	220.87782 40000	2.80	-1999.95371 52000
2.85	167.19915 95156	2.85	-2443.69851 46664
2.90	110.85468 10000	2.90	-2886.84408 19000
2.95	52.05028 68906	2.95	-3327.05187 79992
3.00	- 9.00000 00000	3.00	-3762.00000 00000
3.05	- 72.07472 43594	3.05	-4189.39074 61258
3.10	-136.94567 90000	3.10	-4606.95786 21000
3.15	-203.37857 42344	3.15	-5012.47347 24586
3.20	-271.13369 60000	3.20	-5403.75470 08000
3.25	-339.96655 27344	3.25	-5778.66998 29102
3.30	-409.62851 10000	3.30	-6135.14507 67000
3.35	-479.86741 98594	3.35	-6471.16877 28930
3.40	-550.42822 40000	3.40	-6784.79831 04000
3.45	-621.05356 56094	3.45	-7074.16450 03195
3.50	-691.48437 50000	3.50	-7337.47656 25000

x	$L_6(x)$	x	$L_7(x)$
3.50	- 691.48437 50000	3.50	-7337.47656 25000
3.55	- 761.46044 99844	3.55	-7573.02667 86023
3.60	- 830.72102 40000	3.60	-7779.19426 56000
3.65	- 899.00532 29844	3.65	-7954.44997 36539
3.70	- 966.05311 10000	3.70	-8097.35941 23000
3.75	-1031.60522 46094	3.75	-8206.58660 88867
3.80	-1095.40409 60000	3.80	-8280.89720 32000
3.85	-1157.19426 48594	3.85	-8319.16138 22133
3.90	-1216.72287 90000	3.90	-8320.35655 89000
3.95	-1273.74018 37344	3.95	-8283.56979 90461
4.00	-1328.00000 00000	4.00	-8208.00000 00000
4.05	-1379.26019 12344	4.05	-8092.95982 52977
4.10	-1427.28311 90000	4.10	-7937.87739 91000
4.15	-1471.83608 73594	4.15	-7742.29776 43805
4.20	-1512.69177 60000	4.20	-7505.88410 88000
4.25	-1549.62866 21094	4.25	-7228.41876 22070
4.30	-1582.43143 10000	4.30	-6909.80396 97000
4.35	-1610.89137 54844	4.35	-6550.06244 41898
4.40	-1634.80678 40000	4.40	-6149.33770 24000
4.45	-1653.98331 74844	4.45	-5707.89418 82414
4.50	-1668.23437 50000	4.50	-5226.11718 75000
4.55	-1677.38144 81094	4.55	-4704.51253 77742
4.60	-1681.25446 40000	4.60	-4143.70613 76000
4.65	-1679.69211 73594	4.65	-3544.44325 87008
4.70	-1672.54219 10000	4.70	-2907.58766 53000
4.75	-1659.66186 52344	4.75	-2234.12054 44336
4.80	-1640.91801 60000	4.80	-1525.13925 12000
4.85	-1616.18750 17344	4.85	- 781.85587 28852
4.90	-1585.35743 90000	4.90	- 5.59561 59000
4.95	-1548.32546 68594	4.95	802.20498 05320
5.0	-1505.00000 0	5.0	1640.00000 00
5.1	-1399.15755 9	5.1	3398.85564 39
5.2	-1267.32185 6	5.2	5256.50104 32
5.3	-1109.17135 1	5.3	7196.86807 73
5.4	- 924.57734 4	5.4	9202.38082 56
5.5	- 713.60937 5	5.5	11254.05468 75
5.6	- 476.53990 4	5.6	13331.60407 04
5.7	- 213.84827 1	5.7	15413.55814 17
5.8	73.77606 4	5.8	17477.38414 08
5.9	383.43100 1	5.9	19499.61774 71
6.0	720.00000 0	6.0	21456.00000 00
6.1	1076.15100 1	6.1	23321.62026 69
6.2	1452.33606 4	6.2	25071.06475 52
6.3	1846.79172 9	6.3	26678.57006 43
6.4	2257.54009 6	6.4	28118.18127 36
6.5	2682.39062 5	6.5	29363.91406 25
6.6	3118.94265 6	6.6	30389.92035 84
6.7	3564.58864 9	6.7	31170.65700 87
6.8	4016.51814 4	6.8	31681.05697 28
6.9	4471.72244 1	6.9	31896.70253 01
7.0	4927.00000 0	7.0	31794.00000 00

x	$L_6(x)$	x	$L_7(x)$
7.0	4927.00000 0	7.0	31794.00000 00
7.1	5378.96256 1	7.1	31350.35546 99
7.2	5824.04198 4	7.2	30544.35102 72
7.3	6258.49780 9	7.3	29355.92099 13
7.4	6678.42553 6	7.4	27766.52764 16
7.5	7079.76562 5	7.5	25759.33593 75
7.6	7458.31321 6	7.6	23319.38672 64
7.7	7809.72356 9	7.7	20433.76793 57
7.8	8129.54822 4	7.8	17091.78324 48
7.9	8413.19688 1	7.9	13285.11773 31
8.0	8656.00000 0	8.0	9008.00000 00
8.1	8853.19712 1	8.1	4257.36025 29
8.2	8999.95590 4	8.2	— 967.01614 08
8.3	9091.38688 9	8.3	— 6662.34014 17
8.4	9122.55897 6	8.4	— 12822.67607 04
8.5	9088.51562 5	8.5	— 19438.80468 75
8.6	8934.29177 6	8.6	— 26498.09282 56
8.7	8804.93148 9	8.7	— 33984.37007 73
8.8	8545.50630 4	8.8	— 41877.81304 32
8.9	8201.13432 1	8.9	— 50154.83764 39
9.0	7767.00000 0	9.0	— 58788.00000 00
9.1	7238.37468 1	9.1	— 67745.90638 41
9.2	6610.63782 4	9.2	— 76993.13274 88
9.3	5879.29396 9	9.3	— 86490.15433 47
9.4	5040.02041 6	9.4	— 96193.28586 24
9.5	4088.64062 5	9.5	— 106054.63231 25
9.6	3021.19333 6	9.6	— 116022.05429 76
9.7	1833.95740 9	9.7	— 126039.13803 03
9.8	523.43238 4	9.8	— 136045.18789 12
9.9	— 913.58523 9	9.9	— 145975.22460 09
10.0	— 2480.00000 0	10.0	— 155760.00000 00

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