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-parameters for a general system of distributions to match a grid of $~\alpha_3~$ and $~\alpha_L$

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ABSTRACT

This paper is concerned with a general system of distributions $F(x) = 1 - (1+x^c)^{-k}, \ x,c,k > 0, \ \text{and the reciprocal transformation}$ $G(y) = (1+y^{-c})^{-k}, \ y,c,k > 0. \ \text{Parameters c,k determine } \mu,\sigma \ \text{and the standardized moments } \alpha_3,\alpha_4. \ \text{The purpose of this paper is to provide c,k values which cover a wide grid of } \alpha_3,\alpha_4 \ \text{values.} \ \text{For each c,k}$ matching an α_3,α_4 point, μ and σ are also provided. The grid of α_3,α_4 values is sufficiently detailed that interpolation in most cases appears unnecessary.

1. INTRODUCTION

The general system of distributions here discussed was first given by Burr (1942). As first developed the cumulative distribution function was

$$F(x) = 1 - (1+x^{c})^{-k}$$
 $x \ge 0$ $c,k > 0$
= 0 $x < 0$. (1)

The region of coverage of standardized moments α_3 and α_4 is discussed by Burr and Cislak (1968) in the form of $\delta=(2\alpha_4-3\alpha_3^2-6)/(\alpha_4+3)$ vs. α_3^2 . See Craig (1936). Since then the author found that by using the reciprocal transformation x=1/y, yielding the distribution function

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the region of coverage is greatly extended toward low α_4 's for given α_3 . This extension of the region covers virtually all of the bell-shaped and J-shaped regions of the beta (Pearson Type I) region. Thus by using either (1) or (2) one can match up the first four moments for almost any ordinary distribution likely to occur in practical data.

2. TABLE OF MOMENTS

The parameters c and k are given to match α_3 = .00(.05)1.00(.10)2.00, and corresponding available ranges of α_4 with increments of .10 or .20. With this fineness of coverage it is believed that one can, in fitting observed data, simply pick the c and k having α_3 and α_4 closest to those desired. This is in view of the large errors to which estimates of α_3 and α_4 are subject. Thus for a normal population σ_a $= \sqrt{6/n}$ and σ_a $= \sqrt{24/n}$. The table also provides μ and σ for each c,k combination. Hence we have for the standard variable z, for example, from (1),

$$F_1(z) = 1 - [1 + (\mu + \sigma z)^c]^{-k}$$
 (3)

It will be noted that for some α_3 , α_4 combinations there are two c,k combinations. The corresponding right hand tails are very similar, but there is a differing tendency to peakedness. The maximum standardized density function from (3) is given in the table, whenever two c,k combinations occur for given α_3 , α_4 . (If one is fitting an observed frequency table, he can use (maximum class frequency)/ns (s, in class intervals) to compare with the two entries. In effect this is rather like fitting five parameters.)

In the table, whenever G(y) in (2) is to be used, c is listed as a negative number.

Six decimal places are given in the table for c,k, μ and σ . It cannot be claimed that all six decimal places for given c and k are correct, but only that the listed c and k do give α_3 and α_4 both with errors less than 5 x 10⁻⁵. Some rounding of c and k in practice is certainly permissible.

Distribution systems (1) and (2) have far greater coverage of α_3 , α_4 , but one must stop somewhere. Accordingly the respective cutoff points for α_3 and α_4 were taken as 2 and 9, which are the moments of the exponential.

If anyone is interested in moments which are even more non-normal, for example, for some test statistic, the author's extensive file of moments with c and k up to 1000 each, and several programs, may prove useful, and are available.

Figure 1 shows the coverage of the α_3, α_4 points.

3. ACKNOWLEDGMENT

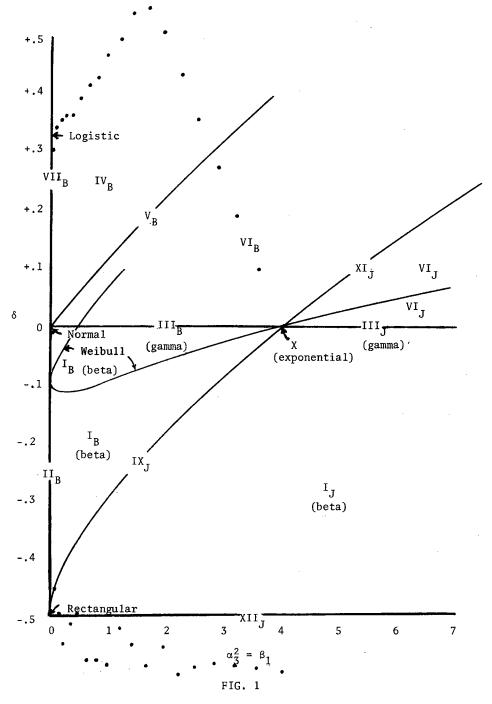
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Mapping of part of the Pearson system of frequency curves (Roman numerals); subscript B for bell-shaped, J for J-shaped. Extremes for system (1) and (2) given in Table I shown by dots.

TABLE I

Values of c and k giving combinations of α_3, α_4 . Corresponding μ and σ are also given. Further when two (c,k) points give same α_3, α_4 the maximum standard density function is also given.

α_3	α ₄	c	k	μ	σ	Max f(z)
.00	2.0	-18.148,445	.062,932	.538,666	.290,634	
	2.2	-13.840,637	.093,482	.574,597	.290,269	
	2.4	-12.134,081	.120,321	.608,776	.287,975	
	2.6	-11.251,863	.146,295	.641,872	.283,920	
	2.8	3.938,938	19.864,823	.427,479	.124,319	
	2.9	4.381,329	9.285,592	.556,456	.150,593	
	3.0	4.873,717	6.157,568	.644,717	.161,990	
	3.1	5.428,963	4.645,729	.712,555	.165,695	
	3.2	6.065,153	3.745,010	.767,265	.164,426	
	3.3	6.808,120	3.140,267	.812,577	.159,574	
	3.4	7.695,948	2.700,685	950 740	151 0//	
	3.5	8.788,464	2.362,213	.850,740 .883,234	.151,944 .141,994	
	3.6	10.182,078	2.089,559	.911,057	.129,983	
	3.7	12.048,411	1.861,568	.934,896	.115,983	
	3.8	14.723,762	1.664,480	.955,196	.099,905	
	3.0	14.723,702	1.00-,400	.,,,,,,,,,	.055,505	
	3.9	18.977,666	1.488,514	.972,184	.081,454	
	4.0	27.068,908	1.325,754	.985,829	.059,999	
.05	2.8	3.736,163	18.807,162	.415,481	.126,951	
	2.9	4.142,236	9.135,007	.541,476	.154,445	
	3.0	4.590,898	6.129,174	.629,556	.167,303	
	3.1	5.092,777	4.650,753	.697,984	.172,357	
	3.2	5.662,575	3.762,138	.753,583	.172,285	
	3.3	6.321,095	3.162,160	.799,927	.168,492	
	3.4	7.098,676	2.724,335	.839,204	.161,796	
	3.5	8.041,365	2.386,184	.872,861	.152,680	
	3.6	9.222,819	2.113,127	.901,893	.141,403	
	3.7	10.769,291	1.884,306	.926,989	.128,047	
	3.8	12.918,580	1.686,072	.948,606	.112,524	
	3.9	16.183,547	1.508,688	.966,989	.904,528	
	4.0	21.934,170	1.344,101	.982,147	.073,393	
	4.1	35.636,439	1.183,701	.993,672	.047,649	
	4.2	137.936,370	1.011,812	.999,946	.013,093	
.10	1.8	-59.220,485	.015,212	.474,346	.293,917	•
	2.0	-16.681,154	.061,503	.512,257	.297,554	
	2.2	-12.919,912	.089,630	.547,480	.298,823	
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	2.4	-11.363,881	.114,478	.580,994	.298,170	
	2.6	-10.533,187	.138,511	.613,467	.295,804	
	2.8	3.520,305	19.605,734	.390,145	.125,715	
	2.9	3.890,818	9.398,797	.517,864	.156,257	
	3.0	4.296,980	6.283,287	.607,662	.171,429	

TABLE I. cont.

α_3	^α 4	c	k	μ	σ	Max f(z)
.10	3.1	4.747,326	4.760,798	.677,796	.178,390	
	3.2	5.253,535	3.848,945	.735,054	.179,940	
	3.3	5.831,907	3.234,727	.783,006	.177,557	
	3.4	6.505,800	2.787,311	.823,846	.172,107	
	3.5	7.309,918	2.442,239	.859,036	.164,110	
	3.6	8.298,308	2.163,941	.889,592	.153,855	,
	3.7	9.560,511	1.930,985	.916,224	.141,447	
	3.8	11.257,714	1.729,403	.939,421	.126,820	
	3.9	13.716,186	1.549,244	.959,471	.109,694	
	4.0	17.724,454	1.382,387	.976,447	.089,441	
	4.1	25.882,630	1.220,311	.990,076	.064,678	
	4.2	56.396,741	1.048,330	.999,138	.031,590	
.15	2.8	3.297,006	22.668,161	.351,161	.119,700	
	2.9		10.125,731	.485,305	.155,373	
	3.0	3.999,541	6.636,285	.578,679	.173,811	
	3.1	4.401,526	4.983,585	.651,620	.183,305	
	3.2	4.848,626	4.009,885	.711,301	.186,950	
	3.3	5.353,296	3.360,883	.761,428	.186,361	
	3.4	5.933,085	2.891,662	.804,274	.182,492	
	3.5	6.613,437	2.531,909	.841,352	.175,922	
	3.6	7.432,897	2.243,177	.873,725	.166,988	
	3.7	8.452,991	2.002,566	.902,145	.155,837	
	3.8	9.779,394	1.795,247	.927,146	.142,447	
	3.9	11.612,302	1.610,833	.949,072	.126,594	
	4.0	14.390,317	1.441,070	.968,082	.107,744	*
	4.1	19.330,563	1.277,790	.984,071	.084,738	
	4.2	31.897,761	1.108,534	.996,317	.054,594	
.20	1.8	-119.822,787	.006,668	.444,231	.297,159	
	2.0	-16.270,368	.055,828	.481,454	.302,727	
	2.2	-12.423,617	.082,271	.515,897	.305,823	
	2.4	-10.857,928	.105,305	.548,571	.306,981	
	2.6	-10.014,446	.127,361	.580,160	.306,473	
	2.8	3.071,043	30.546,716	.295,704	.106,900	
	2.9	3.375,977	11.518,324	.442,911	.150,818	
	3.0	3.704,710	7.243,856	.541,973	.173,700	
	3.1	4.062,382	5.342,586	.618,914	.186,466	
	3.2	4.455,882	4.257,318	.681,824	.192,748	
	3.3	4.894,543	3.548,007	.734,720	.194,387	
	3.4	5.391,250	3.042,238	.780,025	.192,464	*
	3.5	5.964,269	2.658,534	.819,351	.187,649	*
	3.6	6.640,429	2.353,271	.853,828	.180,343	
	3.7	7.461,020	2.100,820	.884,270	.170,754	
	3.8	8.493,575	1.884,907	.911,264	.158,921	
	3.9	9.858,023	1.694,343	.935,222	.144,697	
	4.0	11.793,414	1.520,591	.956,391	.127,681	

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2.2 -12.336,316 .072,245 .480,526 .310,554 2.4 -10.598,582 .093,737 .512,255 .313,632 2.6 -9.681,205 .113,912 .542,768 .315,060 2.8 -9.126,555 .133,886 .572,584 .315,022 3.0 3.140,084 9.871,516 .441,135 .161,685 3.1 3.422,734 6.704,381 .530,769 .184,076 3.2 3.727,036 5.124,256 .603,074 .197,740 3.3 4.057,956 4.168,456 .663,589 .205,437 3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
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2.8 -9.126,555 .133,886 .572,584 .315,022 3.0 3.140,084 9.871,516 .441,135 .161,685 3.1 3.422,734 6.704,381 .530,769 .184,076 3.2 3.727,036 5.124,256 .603,074 .197,740 3.3 4.057,956 4.168,456 .663,589 .205,437 3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
2.8 -9.126,555
3.0 3.140,084 9.871,516 .441,135 .161,685 3.1 3.422,734 6.704,381 .530,769 .184,076 3.2 3.727,036 5.124,256 .603,074 .197,740 3.3 4.057,956 4.168,456 .663,589 .205,437 3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
3.1 3.422,734 6.704,381 .530,769 .184,076 3.2 3.727,036 5.124,256 .603,074 .197,740 3.3 4.057,956 4.168,456 .663,589 .205,437 3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
3.3 4.057,956 4.168,456 .663,589 .205,437 3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
3.4 4.422,107 3.521,324 .715,374 .208,703 3.5 4.828,446 3.048,789 .760,391 .208,489 3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
3.5
3.6 5.289,379 2.684,123 .800,000 .205,404 3.7 5.822,660 2.390,268 .835,190 .199,823
3.8 6.454,759 2.144,834 .866,694 .191,949
3.9 7.227,355 1.933,280 .895,062 .181,825
4.0 8.210,921 1.745,408 .920,705 .169,320
4.1 9.537,181 1.573,299 .943,908 .154,065
4.2 11.491,950 1.409,617 .964,829 .135,252
4.3 14.875,030 1.244,945 .983,425 .111,002
4.4 23.702,217 1.056,533 .999,044 .075,054
.35 3.0 2.875,607 12.886,683 .373,322 .146,521
3.1 3.127,518 7.991,722 .473,068 .176,173
3.2 3.395,956 5.864,147 .552,079 .195,000
3.3 3.684,461 4.664,306 .617,735 .206,775
3.4 3.997,684 3.886,653 .673,725 .213,442
3.5 4.341,791 3.335,949 .722,314 .216,176
3.6 4.725,107 2.920,785 .765,043 .215,736
3.7 5.159,150 2.592,574 .803,021 .212,613

TABLE I cont.

α_3	α_{4}	c	k	μ	σ	Max f(z)
3	4					
	3.8	5.660,394	2.322,980	.837,075	.207,107	
	3.9	6.253,429	2.094,199	.967,833	.199,362	
	4.0	6.977,081	1.894,236	.895,779	.189,372	
	4.1	7.897,365	1.714,350	.921,279	.176,955	
	4.2	9.139,027	1.547,356	.944,600	.161,658	
		•	:			
	4.3	10.978,479	1.386,009	.965,909	.142,507	
	4.4	14.229,446	1.219,568	.985,209	.117,113	
.40	2.0	-20.247,072	.033,824	.409,165	.305,129	•
	2.2	-12.780,160	.060,151	.442,135	.312,371	
	2.4	-10.612,147	.080,563	.472,916	.317,446	
			•	•		
	2.6	-9.538,054	.099,112	.502,275	.320,826	
	2.8	-8.899,101	.117,068	.530,752	.322,777	
	3.0	2.624,794	19.800,118	.288,729	.121,405	
	3.1	2.850,128	10.205,204	.403,948	.161,556	
	3.2	3.087,926	6.991,001	.491,778	.187,065	
			•		-	
	3.3	3.340,706	5.368,843	.563,814	.203,899	
	3.4	3.611,693	4.382,342	.624,863	.214,680	
	3.5	3.905,104	3.712,737	.677,654	.220,909	
	3.6	4.226,497	3.223,402	.723,977	.223,545	
	3.7	4.583,358	2.845,904	.765,103	.223,222	
	3.8	4.985,959	2.542,162	.801,971	.220,354	
	3.9	5.448,945	2.289,128	.835,297	.215,191	
	4.0	5.993,904	2.071,935	.865,629	.207,844	
	4.1	6.655,645	1.880,033	.893,434	.198,272	
	4.2	7.491,552	1.705,847	.919,027	.186,273	
	4.3	8.610,997	1.542,689	.942,684	.171,352	
	4.4	10.255,328	1.383,410	.964,605	.152,458	
	4.5	13.143,657	1.216,485	.984,916	.126,916	
	4.6	143.956,251	.756,389	•	.014,242	
.45	3.1	2.590,458	14.750,513	.320,117	.137,492	
		•	ŕ	•		
	3.2	2.802,285	8.864,587	.420,441	.172,157	
	3.3	3.025,168	6.423,961	.500,622	.195,421	
	3.4	3.261,341	5.078,528	.567,848	.211,250	•
	3.5	3.513,672	4.218,948	.625,640	.221,667	
	3.6	3.785,870	3.616,684	.676,159	.227,910	
				•		
	3.7	4.082,793	3.166,669	.720,890	.230,797	
	3.8	4.410,911	2.813,777	.760,915	.230,881	**
	3.9	4.779,066	2.526,217	.797,059	.228,528	
	4.0	5.199,739	2.284,241	.829,959	.223,956	
	4.1	5.691,298	2.074,781	.860,122	.217,259	
	4.2	6.282,290	1.888,592	.887,957	208,394	
	4.3	7.020,356	1.718,591	.913,796	.197,152	
	4.4	7.993,640	1.558,571	.937,918	.183,056	
	4.5	9.392,324	1.401,751	.960,569	.165,083	
	4.6	11.758,782	1.237,033	.982,004	.140,684	

α_3	α_{4}	С	k	μ	σ	Max f(z)
.50	2.0	-46.009,112	.012,681	.368,920	.301,069	
	2.2	-14.222,488	.046,148	.401,469	.310,714	
	2.4	-11.000,293	.066,322	.431,431	.317,882	
	2.6	-9.617,790	.083,673	.459,691	.323,217	
	2.8	-8.837,537	.099,951	.486,834	.327,087	
	3.0	-8.339,490	.115,918	.513,287	329,712	
	3.2	2.537,779	12.523,490	.335,292	.147,712	
	3.3	2.735,724	8.151,164	426,523	.179,542	
	3.4	2.943,293	6.113,841	.501,498	.201,715	
	3.5	3.162,412	4.926,672	.565,339	.217,232	
	3.6	3.395,555	4.142,901	.620,824	.227,764	
	3.7	3.645,888	3.581,718	.669,747	.234,383	
	3.8	3.917,524	3.155,912	.713,383	.237,814	
	3.9	4.215,883	2.818,198	.752,688	238,558	
	4.0	4.548,291	2.540,631	.788,396	.236,949	
	4.1	4.924,954	2.305,524	.821,092	.233,196	
	4.2	5.360,672	2.100,986	.851,246	.227,386	
	4.3	5.878,014	1.918,512	.879,244	.219,490	
	4.4	6.513,761	1.751,518	.905,414	.209,324	
	4.5	7.333,856	1.594,248	.930,045	.196,468	•
	4.6	8.473,843	1.440,495	.953,420	.180,041	
	4.7	10.289,155	1.280,636	.975,889	.157,937	
	4.8	14.457,708	1.084,855	.998,320	.122,136	
.55	3.2	2.292,809	22.693,730	.230,187	.109,054	
	3.3	2.469,985	11.460,107	.338,979	.153,733	
	3.4	2.654,058	7.803,279	.424,225	.184,232	
	3.5	2.846,322	5.979,735	.495,578	.206,113	
	3.6	3.048,414	4.879,397	.557,039	.221,844	
	3.7	3.262,410	4.137,368	.610,914	.232,876	
	3.8	3.490,943	3.598,478	.658,752	.240,172	
	3.9	3.737,393	3.185,492	.701,678	.244,398	
	4.0	4.006,164	2.855,581	.740,551	.246,021	
	4.1	4.303,119	2.583,014	.776,044	.245,362	
	4.2	4.636,304	2.351,298	.808,698	.242,626	
	4.3	5.017,142	2.149,249	.838,957	.237,910	
	4.4	5.462,652	1.968,820	.867,191	.231,207	
	4.5	5.999,699	1.803,806	.893,722	.222,380	
	4.6	6.674,437	1.648,848	.918,845	.211,096	
	4.7	7.575,988	1.498,441	.942,859	.196,668	
	4.8	8.913,687	1.344,872	.966,145	.177,562	
	4.9	11.425,474	1,.169,741	.989,514	.149,084	
.60	2.2	-19.025,748	.029,137	.359,124	.305,067	
	2.4	-12.072,844	.051,146	.388,558	.314,517	
	2.6	-10.013,249	.067,996	.415,912	.321,854	
	2.8	-8.976,991	.083,066	.441,860	.327,593	

TABLE I cont.

α_3	α ₄	c	k	ħ	σ	Max f(z)
	3.0	-8.347,465	.097,392	.466,866	.332,044	•
	3.2	2.065,687	190.006,936	.069,986	.035,643	
	3.3	2.225,512	20.308,790	.232,679	.113,601	
	3.4	2.390,254	11.043,016	.333,616	.156,237	•
	3.5	2.560,740	7.709,889	.414,791	.186,402	
	3.6	2.738,061	5.983,105	.483,630	.208,595	
	3.7	2.923,568	4.919,839	.543,453	.224,962	
	3.8	3.118,962	4.193,832	.596,254	.236,819	
	3.9	3.326,379	3.662,259	.643,404	.245,052	
	4.0	3.548,519	3.252,635	.685,919	.250,291	
	4.1	3.788,883	2.924,176	.724,590	.252,986	
	4.2	4.052,009	2.652,191	.760,039	.253,453	
	4.3	4.344,030	2.420,720	.792,774	.251,902	
	4.4	4.673,465	2.218,884	.823,218	.248,449	
	4.5	5.052,629	2.038,878	.851,728	.243,117	
. 60	4.6	5.500,292	1.874,726	.878,619	.235,820	
	4.7	6.047,110	1.721,420	.904,180	.226,326	
	4.8	6.748,229	1.574,115	.928,709	.214,147	
	4.9	7.719,427	1.426,781	.952,577	.198,259	
	5.0	9.277,961	1.268,376	.976,422	.176,090	
.65	3.4	2.148,737	19.787,487	.224,659	.113,344	
	3.5	2.301,485	11.087,569	.320,606	.155,451	
	3.6	2.458,934	7.826,072	.399,033	.186,026	
	3.7	2.621,957	6.108,466	.466,178	.209,017	
	3.8	2.791,654	5.041,606	.524,936	.226,381	
	3.9	2.969,389	4.309,444	.577,086	.239,341	
	4.0	3.156,858	3.771,736	.623,869	.248,741	
	4.1	3.356,181	3.356,692	.666,221	.255,188	•
	4.2	3.570,043	3.023,705	.704,874	.259,124	
	4.3	3.801,897	2.748,036	.740,416	.260,869	٠
	4.4	4.056,295	2.513,677	.773,329	.260,644	
	4.5	4.339,392	2.309,735	.804,018	.258,586	
	4.6	4.659,833	2.128,413	.832,827	.254,751	
	4.7	5.030,268	1.963,828	.860,060	.249,107	
	4.8	5.470,373	1.811,186	.886,002	.241,512	
	4.9	6.013,117	1.666,144	.910,935	.231,650	
	5.0	6.720,365	1.523,964	.935,187	.218,888	
	5.1	7.731,421	1.377,717	.959,245	.201,844	
	5.2	9.499,657	1.210,910	.984,252	.176,449	
.70	2.4	-15.099,472	.034,294	.344,832	.306,964	
	2.6	-10.989,382	.052,080	.371,620	.316,468	
	2.8	-9.410,658	.066,607	.396,638	.324,101	
	3.0	-8.547,903	.079,808	.420,429	.330,303	
	3.2	-7.999,715	.092,405	.443,374	.335,351	•
	3.4	-7.621,294	.104,789	.465,763	.339,427	

α_3	α_{4}	c	k	μ	σ	Max f(z)
	3.5	2.064,904	20.669,509	.207,982	.108,682	
	3.6	2.206,288	11.550,302	.300,862	.151,364	
	3.7	2.351,422	8.145,328	.377,511	.182,950	
	3.8	2.501,004	6.355,901	.443,594	.207,155	
	3.9	2.655,908	5.246,239	.501,745	.225,831	
	4.0	2.817,211	4.485,915	.553,588	.240,148	
	4.1	2.986,231	3.928,486	.600,271	.250,923	
	4.2	3.164,601	3.499,043	.642,666	.258,754	,
	4.3	3.354,352	3.155,266	.681,461	.264,083	
	4.4	3.558,050	2.871,386	.717,217	.267,237	
.70	4.5	3.778,999	2.630,802	.750,391	.268,452	
	4.6		2.422,216	.781,373	.267,889	
	4.7	4.291,657	2.237,585	.810,504	.265,635	
	4.8	4.597,639	2.070,983	.838,070	.261,707	
	4.9	4.951,833	1.917,688	.864,345	.256,040	
	5.0	5.373,599	1.773,649	.889,595	.248,451	
	5.1	5.895,812	1.634,967	.914,101	.238,573	
	5.2	6.581,989	1.496,888	.938,241	.225,672	.448
	5.2	91.338,036		1.009,891	.024,995	.481
	5.3	7.582,697	1.351,595	.962,646	.208,073	
	5.4	9.463,770	1.176,384	.989,158	.180,116	.459
7.5	5.4	24.143,685	.795,161	1.020,155	.085,459	.475
.75	3.6	1.976,147	23.178,840	183,700	.099,616	
	3.7	2.106,903	12.488,763	.274,997	.143,811	
	3.8	2.240,570	8.693,358	.350,629	.176,932	
	3.9	2.377,704	6.739,858	.416,158	.202,724	
	4.0	2.518,983	5.542,967	.474,074	.223,001	
	4.1	2.665,246	4.729,607	.525,900	.238,910	
	4.2	2.817,505	4.137,092	.572,712	.251,257	•
	4.3	2.976,995	3.683,094	.615,331	.260,635	
	4.4	3.145,231	3.321,451	.654,412	.267,495	
	4.5	3.324.090	3.024,255	.690,488	.272,174	
	4.6 4.7	3.515,940	2.773,588	.724,005	.274,926	
	4.8	3.723,819 3.951,733	2.557,380 2.367,130	.755,339	.275,933	
	7.0	3.751,755	2.307,130	.784,813	.275,314	
	4.9	4.205,112	2.196,603	.812,712	.273,126	
	5.0	4.491,616	2.040,991	.839,296	.269,365	
	5.1	4.822,540	1.896,371	.864,809	.263,947	
	5.2	5.215,600	1.759,238	.889,506	.256,675	
	5.3	5.701,055	1.625,992	.913,677	.247,168	
	5.4	6.337,490	1.492,063	.937,725	.234,668	
	5.5	7.265,527	1.349,409	962,387	.217,424	
. 60	5.6	9.042,553	1.172,479	.990,040	.189,144	
.80	2.4	-51.830,506	.008,276	.300,448	.294,710	
	2.6	-13.575,011	.035,149	.327,211	.306,783	

α3.	α_4	c	k	μ	σ	Max f(z)
	່າ ຊ	-10.402,744	.050,383	.351,693	.316,481	
	2.8 3.0	-9.042,699	.063,123	.374,598	.324,467	
	3.2	-8.266,036	.074,747	.396,383	.331,139	
	3.4	-7.759,255	.085,816	.417,369	.336,756	
	3.6	-7.402,180	.096,642	.437,802	.341,490	
	3.0	-7.402,100	.070,042	.457,002	1342,120	
	3.8	2.005,188	14.088,423	.243,433	.132,523	
	3.9	2.128,310	9,536,006	.318,692	.167,672	
	4.0	2.254,058	7.292,464	.384,089	.195,398	
	4.1	2.382,954	5.950,402	.442,082	.217,549	
	4.2	2.515,643	5.052,465	.494,139	.235,275	
	4.3	2.652,889	4.405,780	.541,280	.249,380	
	4.4	2.795,622	3.914,750	.584,288	.260,466	
	4.5	2.944,950	3.526,664	.623,786	.268,988	
	4.6	3.102,243	3.209,946	.660,291	.275,302	
	4.7	3.269,176	2.944,583	.694,232	.279,677	
	4.8	3.447,850	2.717,202	.725,975	.282,317	
	4.9	3.640,957	2.518,494	.755,834	.283,367	
	5.0	3.852,012	2.341,707	.784,086	.282,921	
	5.1	4.085,768	2.181,764	.810,979	.281,021	
	5.2	4.348,851	2.034,651	.836,744	.277,652	
	5.3	4.651,014	1.897,009	.861,608	.272,729	
	5.4	5.007,227	1.765,773	.885,805	.266,069	.446
	5.4	127.871,979	.565,836	1.008,765	.018,881	.488
	5.5	5.443,170	1.637,666	.909,632	.257,309	
	5.6	6.006,765	1.508,561	.933,483	.245,764	.452
	5.6	39.774,955	.659,943	1.020,886	.056,888	.485
	5.7	6.810,370	1.371,128	.958,109	.229,865	
	5.8	8.262,415	1.203,538	.985,782	.204,366	.462
	5.8	17.769,953	.828,150	1.024,690	.115,049	.477
.85	3.9	1.902,665	16.787,790	.206,462	.117,140	
	4.0	2.016,173	10.806,432	.281,951	.154,823	
	4.1	2.131,610	8.073,311	.347,568	.184,819	
	4.2	2.249,371	6.500,860	.405,907	.209,112	
	4.3	2.369,940	5.474,363	.458,407	.228,876	
	4.4	2.493,891	4.747,781	.506,055	.244,926	T.
	4.5	2.621,913	4.203,379	.549,601	257,875	
	4.6	2.754,825	3.777,726	.589,645	.268,192	
	4.7	2.893,606	3.433,609	.626,684	.276,247	
	4.8	3.039,443	3.147,728		.282,327	
	4.9	3.193,785	2.904,731	.693,358	.286,658	
	5.0	3.358,435	2.694,051	.723,657	.289,407	
	5.1	3.535,677	2.508,146	.752,300	.290,699	
	5.2	3.728,479	2.341,424	.779,529	.290,612	
	5.3	3.940,791	2.189,602	.805,602	.289,180	
	5.4	4.178,084	2.049,230	.830,608	.286,391	

α_3	α ₄	c	k	μ	σ	Max f(z)
	5.5	4.448,226	1.917,383	.854,872	.282,171	
	5.6	4.763,167	1.791,367	.878,575	.276,361	
	5.7	5.142,502	1.668,345	.901,985	.268,664	
	5.8	5.621,921	1.544,747		.258,516	
	5.9	6.278,718	1.414,683	.949,695	.244,716	
	6.0	7.349,728	1.263,208	.9.76,366	.223,795	
.90	2.6	-33.592,902	.011,700	.282,705	.292,329	
	2.8	-13.000,122	.033,499	.307,232	.304,531	
	3.0	-10.127,315	.046,939	.329,693	.314,506	
	3.2	-8.845,502	.058,259	.350,697	.322,867	
	3.4	-8.099,881	.068,553	.370,641	.329,989	
	3.6	-7.607,169	.078,299	.389,806	.336,120	
	3.8	-7.256,162	.087,759	.408,403	.341,431	
	4.0	1.800,497	21.718,428	.164,187	.097,179	
	4.1	1.905,323	12.777,753	.240,614	.138,007	•
	4.2	2.011,500	9.190,589	.306,783	.170,621	
	4.3	2.119,326	7.249,404	.365,687	.197,316	
	4.4	2.229,165	6.027,496	.418,812	.219,336	
	4.5	2.341,442	5.183,828	.467,121	.237,518	
	4.6	2.456,663	4.563,170	.511,340	.252,490	
	4.7	2.575,438	4.084,871	.552,052	.264,738	
	4.8	2.698,458	3.702,858	.589,732	.274,645	
	4.9	2.826,565	3.388,840	.624,789	.282,518	
	5.0	2.960,761	3.124,481	.657,569	.288,601	
	5.1	3,102,260	2,897,372	.688,373	.293,084	
	5.2	3.252,558	2.698,753	.717,465	.296,116	
	5.3	3.413,526	2.522,260	.745,078	.297,803	
	5.4	3.587,559	2.363,101	.771,423	.298,219	
	5.5	3.777,831	2.217,547	.796,693	.297,395	
	5.6	3.988,581	2.082,580	.821,075	.295,329	
	5.7	4.225,887	1.955,617	.844,755	.291,964	
	5.8	4.498,605	1.834,297	.867,932	.287,180	.448
	5.8	59.120,196	575,085	1.018,859	.041,181	.492
	5.9	4.820,774	1.716,195	.890,842	.280,751	/ 50
	6.0	5.216,472	1.598,420	.913,800	.272,267	.453
	6.0	30.499,327	.659,137	1.028,040	.075,191	.490
	6.1	5.733,746	1.476,560	.937,335	.260,897	
	6.2	6.493,030	1.341,580	.962,563	.244,654	.461
0.5	6.2	17.477,803	.787,408	1.030,964	.120,950	.484
.95	4.1	1.699,588	32.697,593	.116,321	.071,877	
	4.2	1.796,609	16.075,642	.194,847	.116,804	
	4.3	1.894,517	10.855,173	.261,911	.152,422	
	4.4	1.993,536	8.293,100	.321,572	.181,784	
	4.5	2.093,931	6.765,394	.375,465	.206,277	
	4.6	2.196,019	5.746,806	.424,566	.226,780	

TABLE I cont.

α_3	α ₄	c	k	μ	σ	Max f(z)
	4.7	2.300,176	5.015,970	.469,582	243,941	
	4.8	2.406,835	4.463,463		.258,261	
	4.9	2.516,503	4.028,950		.270,140	
	5.0	2.629,774	3.676,422	.585,253	.279,901	
	5.1	2.747,342	3.383,055	.618,678	.287,808	
	-	,	, , , , , , , , , , , , , , , , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	5.2	2.870,034	3,133,656	.650,068	.294,071	
	5.3	2.998,837	2.917,713	.679,680	.298,858	
	5.4	3.134,955	2.727,686	.707,743	.302,302	
	5.5	3.279,872	2.558,012	.734,461	.304,501	
	5.6	3.435,46 5	2.404,447	.760,020	.305,524	
	5.7	3.604,155	2.263,670	.784,594	.305,409	
	5.8	3.789,145	2.132,979	.808,348	.304,161	
	5.9	3.994,838	2.010,075	.831,446	.301,748	
	6.0	4.227,525	1.892,878	.854,064	.298,088	
	6.1	4.496,684	1.779,331	.876,405	.293,024	
		. 017	1 667 104			
	6.2	4.817,663	1.667,124	.898,725	.286,277	
	6.3	5.218,033	1.553,153	.921,408	.277,334	
	6.4	5.756,297	1.432,089	.945,152	.265,115	
1 00	6.5	6.605,445	1.290,294	.971,796	.246,579	
1.00	2.8	-37.592,244	.009,476	.263,067	.287,757	
	3.0	-13.068,026	.030,050	.285,705	.300,232	
	3.2	-10.102,815	.042,342	.306,405	.310,543	
	3.4	-8.794,494	.052,544	.325,718	.319,287	
	3.6	-8.035,677	.061,736	.344,004	.326,831	
	3.8	-7.534,128	.070,362	.361,514	.333,420	
	4.0	-7.176,003	.078,658	.378,436	.339,226	
	4.2	1.600,580	75.150,186	.060,742	.039,228	
	4.3	1.690,623	22.470,488	.144,684	.090,693	
	4.4	1.781,200	13.522,563	.213,171	.129,853	
	4.5	1.872,416	9.815,940	.273,744	.162,152	
	7.5	1.072,410	7.013,740	.2/3,/44	.102,132	
•	4.6	1.964,535	7.780,951	.328,516	.189,332	
	4.7	2.057,767	6.490,713	.378,506	.212,344	
	4.8	2.152,385	5.596,230	.424,414	.231,862	
	4.9	2.248,705	4.936,947	.466,778	.248,402	
	5.0	2.347,094	4.428,629	.506,046	.262,382	
	5.1	2.447,971	4.022,929	.542,595	.274,139	
	5.2	2.551,826	3.689,945	.576,758	.283,956	
	5.3	2.659,223	3.410,369	.608,818	.292,058	
	5.4	2.770,828	3.170,981	.639,034	.298,637	
	5.5	2.887,426	2.962,565	.667,625	.303,841	
	F /	2 000 050	0 770 0-0	(0) 701	207 700	
	5.6	3.009,958	2.778,372	.694,794	.307,793	
	5.7	3.139,573	2.613,392	.720,721	.310,587	,,,
	5.8	3:227,685	2.463,769	.745,571	.312,291	.445
	5.8	430.089,604		1.003,780	.006,369	.505
	5.9	3.426,107	2.326,475	.769,498	.312,946	

α ₃	α ₄	c	k	μ	σ	Max f(z)
	6.0	3.587,147	2.199,033	.792,649	.312,572	.447
	6.0	88.962,325	.506,919		.029,400	.503
	6.1	3.763,922	2.079,362	.815,170	.311,156	
	6.2	3.960,662	1.965,622	.837,209	.308,651	.450
	6.2	45.442,008	.564,494	1.025,908	.054,855	. 500
	6.3	4.183,617	1.856,035	.858,940	.304,955	
	6.4	4.442.055	1.748,775	.880,562	.299,899	.454
	6.4	28.220,140	.634,323	1.033,632	.083,794	.495
	6.5	4.751,381	1.641,619	.902,351	.293,178	
	6.6	5.139,853	1.531,357	.924,740	.284,223	.459
	6.6	18.712,907	.726,605	1.037,381	.118,638	.491
	6.7	5.670,008	1.412,009	.948,578	.271,801	
	6.8	6.548,242	1.265,997		.252,039	.467
	6.8	11.916,601		1.030,895	.169,214	.483
1.10	3.2	-13.852,552	.025,403	.263,285	.293,931	
	3.4	-10.339,287	.036,992	.282,473	.304,638	
	3.6	-8.891,192	.046,351	.300,308	.313,776	
	3.8	-8.072,533	.054,658	.317,128	.321,722	
	4.0	-7.538,217	.062,361	.333,167	.328,723	
	4.2	-7.159,158	.069,690	.348,599	.334,955	
	4.4	-6.875,177	.076,789	.363,558	.340,545	
	4.6	1.566,446	29.934,881	.104,421	.069,736	
	4.8	1.723,358	11.539,059	.224,684	.142,462	
	5.0	1.881,594	7.407,784	.324,386	.195,730	
	5.2	2.042,396	5.566,600	.409,828	.235,749	
	5.4	2.207,412	4.511,672	.484,085	.265,814	•
	5.6	2.378,735	3.818,446	.549,432	.288,197	
	5.8	2.559,062	3.320,515	.607,683	.304,525	
	6.0	2.751,924	2.939,153	.660,306	.315,948	
	6.2	2.962,123	2.632,052	.708,506	.323,255	.449
•	6.2	143.908,683	.447,666	1.011,861	.019,594	.513
	6.4	3.196,528	2.374,114		.326,939	.451
	6.4	67.123,749		1.022,280	.040,216	.510
	6.6	3.465,643	2.149,011	.795,621	.327,221	.453
	6.6	41.372,620	.540,745	1.031,208	.062,428	.508
	6.8	3.787,072	1.944,808	.836,369	.324,003	.456
	6.8	28,436,327		1.038,278	.086,719	.504
	7.0	4.194,418	1.750,908	.876,663	.316,694	.458
	7.0	20.562,812	.665,268	1.042,823	.113,982	.499
	7.2	4.767,707	1.553,698	.918,359	.303,526	.463
	7.2	15.090,637	.753,503	1.043,342	.146,217	.494
	7.4	5.828,505	1.316,251	.967,281	.277,327	.470
	7.4	10.591,476	.895,583	1.034,296	.190,774	.487
1.20	3.4	-15.970,470	.019,608	.240,475	.285,684	
	3.6	-10.928,190	.031,116	.258,396	.296,862	

TABLE I cont.

α ₃	α ₄	с	k	μ	σ	Max f(z)
1.20	3.8	-9.165,383	.039,921	.274,966	.306,425	
	4.0	-8.223,128	.047,552	.290,517	.314,767	
	4.2	-7.625,278	.054,520	.305,276	.322,152	
	4.4	-7.208,060	.061,068	.319,408	.328,762	
	4.6	-6.898,615	.067,340	.333,039	.334,730	
	4.8	-6.659,188	.073,428	.346,268	.340,156	
	5.0	1.504,554	24.629,355	.109,772	.076,538	
	5.2	1.640,592	11.329,863	.213,057	141,750	
	5.4	1.776,866	7.592,537	.302,169	.192,248	
	5.6	1.914,189	5.816,981	.380,247	.231,755	
	5.8	2.053,639	4.769,280	.449,194	.262,628	
	6.0	2.196,556	4.070,076	.510,617	.286,644	
	6.2	2.344,573	3.564,053	.565,833	.305,148	
	6.4	2.499,739	3.175,657	.616,017	.319,150	.454
	6.4	279.031,316	.393,802	1.007,361	.010,974	.524
	6.6	2.664,656	2.863,597	.662,127	.329,396	.455
	6.6	103.241,761	.429,494	1.017,806	.028,414	.520
	6.8	2.842,783	2.603,279	.704,984	.336,403	.455
	6.8	60.254,824	.467,777	1.027,166	.046,706	.519
	7.0	3.038,893	2.378,881	.745,312	.340,511	.457
	7.0	40.924,528	.509,402	1.035,321	.006,003	.516
	7.2	3.260,024	2.179,429	.783,786	.341,876	.459
	7.2	29.951,982	.555,404	1.042,082	.086,520	.513
	7.4	3.517,314	1.996,529	.821,096	.340,453	.461
	7.4	22.858,841	.607,373	1.047,156	.108.588	.509
	7.6	3.830,466	1.822,637	.858,073	.335,802	.463
	7.6	17.846,178	.668,017	1.050,041	.132,786	.505
	7.8	4.240,062	1.648,878	.895,978	.327,233	.466
	7.8	14.027,244	.742,719	1.049,741	.160,251	.500
	8.0	4.860,272	1.458,202	.937,667	.311,596	.469
	8.0	10.834,182	.845,923	1.043,622	.194,004	.494
	8.2	6.843,275	1.120,217	1.005,757	.262,292	
1.30	3.6	-23.067,957	.011,999	.217,637	.275,532	
	3.8	-12.144,547	.024,763	.234,535	.287,292	
	4.0	-9.695,460	.033,368	.250,053	.297,334	
	4.2	-8.520,489	.040,546	.264,531	.306,095	
	4.4	-7.811,890	.046,961	.278,198	.313,859	
	4.6	-7.331,685	.052,898	.291,217	.320,823	
	4.8	-6.982,128	.058,515	.303,711	.327,129	
	5.0	-6.715,027	.063,907	.315,776	.332,883	
	5.2	-6.503,655	.069,141	.327,486	.338,166	
	5.4	1.425,085	26.161,392	.094,150	.068,983	
•	5.6	1.543,343	12.252,089	.185,605	.130,299	
	5.8	1.660,987	8.248,555		.179,796	
	6.0	1.778,586	6.334,351	.339,205	.219,907	

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α_3	α_4	С	k	μ	· σ	Max f(z)
1.30	6.2	1.896,836	5.203,380	.404,104	.252,336	
	6.4	2.016,570	4.449,818	.462,508	.278,480	
	6.6	2.138,776	3.906,432	.515,414	.299,473	.464
	6.6	1068.674,941	.343,231	1.002,307	.003,148	.538
	6.8	2.264,626	3.491,669	.563,708	.316,213	.462
	6.8	175.636,559	.373,613	1.012,699	.018,306	.535
	7.0	2.395,530	3.160,965	.608,167	.329,398	.462
	7.0	90.718,777	.405,331	1.022,231	.033,971	.532
	7.2	2.533,230	2.887,829	.649,463	.339,558	.462
	7.2	58.980,495	.430, 693	1.030,852	.050,190	.527
	7.4	2.679,942	2.655,424	.688,184	.347,084	.463
	7.4	42.474,127	.474,114	1.038,502	.067,032	.525
	7.6	2.838,600	2.452,395	.724,860	.352,247	.463
	7.6	32.393,719		1.045,086	.084,588	.523
	7.8	3.013,288	2.270,628	.759,982	.355,200	.463
	7.8	25.604,151	.553,350	1.050,476	.102,991	.520
	8.0	3,209,985	2.103,858	.794,047	.355,983	.465
	8.0	20.712,002	.598,834	1.054,476	.122,425	.516
	8.2	3.438,172	1.946,734	.827,611	.354,475	.467
	8.2	16.995,156	.650,088	1.056,786	.143,199	.512
	8.4	3.714,468	1.793,804	.861,403	.350,307	.469
	8.4	14.037,471	.709,695	1.056,889	.165,825	.508
	8.6	4.073,061	1.637,734	.896,629	.342,571	.471
	8.6	11.565,804	.782,681		.191,293	.503
	8.8	4.609,258	1.463,001	.936,157	.328,634	.475
	8.8	9.319,875	.883,287	1.044,682	.222,439	.496
1.40	4.0	-14.974,565	.017,666	.211,123	.275,979	
	4.2	-10.678,314	.026,679	.225,802	.286,596	
	4.4	-9.037,666	.033,671	.239,400	.295,826	
	4.6	-8.133,148	.039,721	.252,158	.303,991	
	4.8	-7.549,300	.045,209	.264,244	.311,311	
	5.0	-7.137,041	.050,324	.275,782	.317,941	
	5.2	-6.828,449	.055,175	.286,866	.323,997	•
	5.4	-6.587,772	.059,834	.297,570	.329,566	
	5.6	-6.394,254	.064,350	.307,955	.334,717	
	5.8	1.335,778	34.914,730	.065,509	.050,667	
	6.0	1.439,089	14.541,151	.147,281	.109,513	
	6.2	1.541,259	9.486,348	.221,707	.158,800	
	6.4	1.642,668	7.181,373	.289,470	.200,067	
	6.6	1.743,762	5.853,929	.351,033	.234,452	*
	6.8	1.845,063	4.984,891	.407,011	.263,012	
•	7.0	1.947,171	4.367,051	.458,084	.286,678	.477
	7.0	382.998,708	.321,306	1.007,066	.009,333	.549
	7.2	2.050,770	3.901,426	.504,914	.306,240	.475
	7.2	147.783,535	.348.841	1.016,661	.023,090	. 547

α_3	α_4	С	k	μ	σ	Max f(z)
	7.4	2.156,648	3.534,741	.548,113	.322,345	.473
	7.4	87.941,534	.377,144		.037,176	. 544
	7.6	2.265,717	3.235,742	.588,229	.335,513	.471
	7.6	60.851,776	.406,433	1.033,599	.051,614	.540
	7.8	2.379,061	2.984,841	.625,751	.346,153	.471
	7.8	45.510,760	.436,942	1.040,892	.066,434	.536
	8.0	2.497,998	2.769,079	.661,109	.354,584	.470
	8.0	35.686,133	.468,943	1.047,348	.081,675	.532
	8.2	2.624,184	2.579,473	.694,696	.361,040	.470
	8.2	28.877,247	.502,764	1.052,911	.097,388	.530
	8.4	2.759,772	2.409,497	.726,871	.365,687	.470
	8.4	23.887,441	.538,818	1.057,500	.113,641	.527
	8.6	2.907,683	2.254,170	.757,988	.368,616	.471
	8.6	20.071,147	.577,658	1.061,007	.130,532	.524
	8.8	3.072,082	2.109,431	.788,409	.369,843	.471
	8.8	17.049,615	.620,046	1.063,271	.148,199	.521
	9.0	3.259,287	1.971,638	.818,550	.369,282	.472
	9.0	14.582,546	.667,130	1.064,054	.166,854	.517
1.50	4.2	-28.492,765	.008,116	.188,273	.262,918	
	4.4	-12.725,454	.019,623	.202,338	.274,262	
	4.6	-9.947,745	.026,856	.215,249	.284,055	
	4.8	-8.662,713	.032,764	.227,275	.292,677	
	5.0	-7.899,136	.037,968	.238,597	.300,383	
	5.2	-7.385,558	.042,725	. 249, 344	.307,348	
	5.4	-7.013,213	.047,172	.259,615	.313,703	
	5.6	-6.729,262	.051,392	.269,485	.319,544	
	5.8	-6.504,675	.055,441	.279,014	.324,948	
	6.0	-6.322,081	.059,357	.288,250	.329,972	
	6.2	1.241,925	74.224,193	.029,369	.024,055	
	6.4	1.332,837	19.550,142	.102,225	.080,710	
	6.6	1.422,317	11.689,779	.170,200	.129,784	
	6.8	1.510,611	8.529,460	.233,508	.172,259	
	7.0	1.598,009	6.815,789	.291,987	.208,693	
	7.2	1.684,839	5.734,788	.345,803	.239,765	
	7.4	1.771,479	4.986,255	.395,319	.266,187	.494
	7.4	285.965,879	.295,486	1.010,569	.013,462	.565
	7.6	1.858,343	4.433,791	.440,973	.288,617	.489
	7.6	141.134,028	.320,658	1.019,547	.025,969	.559
	7.8	1.945,891	4.006,426	.483,218	.307,632	.486
	7.8	90.604,516	.346,186	1.027,880	.038,686	.556
	8.0	2.034,632	3.663,584	.522,485	.323,722	.484
	8.0	65.162,308	.372,225	1.035,564	.051,620	.553
	8.2	2.125,136	3.380,370	.559,172	.337,296	.482
	8.2	49.960,798	.398,933	1.042,588	.064,786	.550
	8.4	2.218,055	3.140,639	.593,641	.348,687	.480

α ₃	α_{4}	С	k	μ.	σ	Max f(z)
	8.4	39.913,293	.426,472	1.048,935	.078,197	.546
	8.6	2.314,143	2.933,435		.358,163	.479
	8.6	32.809,870	.455,019	1.054,582	.091,874	. 542
	8.8	2.414,297	2.751,024		.365,939	.478
	8.8	27.537,890	.484,773	1.059,498	.105,844	.538
	9.0	2.519,614	2.587,749	.686,833	.372,178	.478
	9.0	23.477,378	.515,972	1.063,639	.120,137	.536
1.60	4.6	-19.393,036	.011,222	.179,682	.260,319	
	4.8	-11.764,721	.019,853	.192,107	270,824	
	5.0	-9.572,915	.025,973	.203,577	.280,000	
	5.2	-8.460,461	.031,092	.214,296	.288,154	
	5.4	-7.770,812	.035,638	.224,408	.295,494 [.]	
	5.6	-7.295,292	.039,808	.234,018	.302,170	
	5.8	-6.944,790	.043,708	.243,205	.308,294	
	6.0	-6.674,278	.047,407	.252,032	.313,949	
	6.2	-6.458,354	.050,949	.260,549	.319,202	
	6.4	-6.281,508	.054,367	.268,796	.324,105	1.
	6.6	-6.133,694	.057,685	.276,808	.328,703	
	6.8	1.227,724	33.643,177	.054,569	.045,824	
	7.0	1.306,854	16.004,244	.115,443	.093,821	
	7.2	1.384,579	10.797,382	.173,857	.136,968	
	7.4	1.461,089	8.295,385	.229,010	.175,152	
	7.6	1.536,602	6.819,265	.280,573	.208,595	.525
	7.6	948.006,675	.242,887	1.004,002	.004,730	.588
	7.8	1.611,358	5.841,132	.328,551	.237,713	.516
	7.8	263.213,429	.266,401	1.013,066	.016,019	.583
	8.0	1.685,620	5.142,031	.373,131	.262,986	.510
	8.0	145.611,833	.289,761	1.021,559	.027,431	.578
	8.2	1.759,670	4.614,790		.284,891	.505
	8.2	97.659,754	.313,138	1.029,488	.038,971	.572
	8.4	1.833,815	4.200,761	.453,232	.303,861	.501
	8.4	71.926,959	.336,678		.050,643	. 567
	8.6	1.908,383	3.865,138	.489,365	.320,282	.496
	8.6	56.023,617	.360,502	1.043,668	.062,448	.564
	8.8	1.983,728	3.585,977	.523,277	.334,480	.494
	8.8	45.295,590		1.049,915	.074,394	.561
	9.0	2.060,241	3.348,706	.555,242	.346,737	.492
1 50	9.0	37,611,345	.409,464	1.055,592	.086,486	.557
1.70	5.0	-17.184,382	.011,817	.169,922	.256,097	
	5.2	-11.378,117	.019,067	.181,019	.265,982	
	5.4	-9.421,267	.024,421	.191,297	.274,688	
	5.6	-8.383,048	.028,941	.200,921	.282,474	
	5.8	-7.725,140	.032,969	.210,010	.289,521	
	6.0	-7.265,397	.036,663	.218,651	.295,960	
	6.2	-6.923,414	.040,116	.226,912	.301,887	

TABLE I cont.

lpha 3	α ₄	c	k	μ	σ	Max f(z)
1.70	6.4	-6.657,695	.043,384	.234,845	.307,380	
	6.6	-6.444,482	.046,507	.242,493	.312,498	
	6.8	-6.269,114	.049,512	.249,891	.317,288	
	7.0	-6.122,009	.052,421	.257,068	.321,791	
	7.2	-5.996,625	.055,250	.264,049	.326,038	
	7.4	1.196,263	27.202,366	.061,235	.053,076	
	7.6	1.265,466	15.190,980	.113,510	.095,521	,
	7.8	1.333,308	10.787,003	.164,494	.134,588	
	8.0	1.399,935	8.494,987	.213,252	.169,866	.560
	8.0	728.317,775	.211,543	1.006,117	.006,981	.612
	8.2	1.465,509	7.084,851	.259,361	.201,365	.548
	8.2	272.008,687		1.014,733	.017,371	.602
	8.4	1.530,205	6.126,360	.302,704	.229,307	.538
	8.4	159.456,684	.256,360		.027,833	.597
	8.6	1.594,206	5.429,823	.343,341	.254,005	.529
	8.6	109.508,845	.278.221	1.030,446	.038,368	.592
	8.8	1.657,706	4.898,686	.381,418	.275,795	.523
	8.8	81.706,828		1.037,563	.048,974	. 586
	9.0	1.720,912	4.478,457	.417,136	.295,010	.518
	9.0	64.184,941		1.044,196	.059,654	.580
1.80	5.4	-16.858,349	.011,165	.159,490	.250,554	
	5.6	-11.366,592	.017,631	.169,495	.259,978	
	5.8	-9.443,776	.022,442	.178,779	.268,325	
	6.0	-8.411,013	.026,505	.187,481	.275,824	
	6.2	-7.752,320	.030,121	.195,703	.282,636	
	6.4	-7.290,132	.033,431	.203,519	.288,879	
	6.6	-6.945,320	.036,517	.210,988	.294,643	
	6.8	-6.676,808	.039,431	.218,156	.299,996	
	7.0	-6.460,965	.042,207	.225,060	.304,994	
	7.2	-6.283,161	.044,872	.231,731	.309,682	
	7.4	-6.133,813	.047,443	.238,194	.314,095	
	7.6	-6.006,365	.049,936	.244,472	.318,265	
	7.8	-5.896,163	.052,362	.250,583	.322,216	
	8.0	1.153,421	26.949,058	.056,381	.050,683	
	8.2	1.214,309	15.787,455	.101,521	.088,830	
	8.4	1.273,903	11.404,129	.146,305	.124,868	.612
	8.4	736.198,261		1.007,441	.008,193	.644
	8.6	1.332,314	9.057,180	.189,738	.157,889	.593
	8.6	308.231,331	.198,431	1.015,694	.017,797	.632
	8.8	1.389,659	7.591,306	.231,304	.188,017	.576
	8.8	184.953,356	.220,143	1.023,486	.027,435	.621
	9.0	1.446,063	6.585,968	.270,780	.215,210	.564
	9.0	128.000,229	.241,183	1.030,832	.037,108	.613
1.90	5.8	-17.930,823	.009,676	.148,733	.243,913	
	6.0	-11.698,645	.015,755	.157,836	.253,002	

α ₃	α ₄	с	k	μ	σ	Max f(z)
1.90	6.2	-9.633,781	.020,191	.166,289	.261,080	
	6.4	-8.542,396	.023,909	.174,214	.268,359	
	6.6	-7.851,687	.027,201	.181,699	.274,986	
	6.8	-7.369,225	.030,201	.188,812	.281,072	
	7.0	-7.010,362	.032,989	.195,605	.286,701	
	7.2	-6.731,447	.035,613	.202,119	.291,938	
	7.4	-6.507,581	.038,104	.208,387	.296,833	
	7.6	-6.323,364	.040,488	.214,436	.301,430	
	7.8	-6.168,753	.042,781	.220,290	.305,764	
	8.0	-6.036,889	.044,998	.225,968	.309,861	
	8.2	-5.922,915	.047,148	.231,487	.313,749	
	8.4	-5.823,293	.049,241	.236,861	.317,445	
	8.6	1.103,453	30.794,038	.044,412	.041,546	
	8.8	1.157,414	17.694,521	.083,149	.075,871	.695
	8.8	913.397,254	.132,993	1.008,082	.008,585	.691
	9.0	1.210,157	12.676,607	.122,417	.109,081	.660
	9.0	387.917,363	.157,502		.017,502	.668
2.00	6.2	-21.416,286	.007,433	.137,895	.236,343	
	6.4	-12.465,414	.013,546	.146,252	.245,201	
	6.6	-10.020,598	.017,762	.154,009	.253,089	
	6.8	-8.791,087	.021,232	.161,277	.260,206	
	7.0	-8.031,145	.024,275	.168,139	.266,695	
	7.2	-7.507,666	.027,031	.174,654	.272,662	
	7.4	-7.121,838	.029,578	.180,870	.278,185	
	7.6	-6.823,937	.031,965	.186,825	.283,327	
	7.8	-6.585,976	.034,223	.192,548	.288,139	
	8.0	-6.390,891	.036,377	.198,066	.292,660	
	8.2	-6.227,638	.038,442	.203,400	.296,924	
	8.4	-6.088,733	.040,431	.208,567	.300,959	
	8.6	-5.968,907	.042,356	.213,582	.304,789	
	8.8	-5.864,337	.044,223	.218,459	.308,432	