附录 2 附表

附表 1 二项分布表

$$P\{X \le x\} = \sum_{k=0}^{x} {n \choose k} p^{k} (1-p)^{n-k}$$

								p						
n	х	0.001	0.002	0.003	0.005	0.01	0.02	0.03	0.05	0.10	0. 15	0.20	0. 25	0.30
2	0	0.9980	0.9960	0. 9940	0.9900	0. 9801	0.9604	0.9409	0.9025	0.8100	0.7225	0.6400	0. 5625	0.4900
2	1	1.0000	1.0000	1.0000	1.0000	0.9999	0. 9996	0. 9991	0.9975	0.9900	0.9775	0.9600	0. 9375	0.9100
3	0	0.9970	0.9940	0.9910	0. 9851	0.9703	0.9412	0.9127	0.8574	0.7290	0.6141	0.5120	0. 4219	0.3430
3	1	1.0000	1.0000	1.0000	0.9999	0.9997	0. 9988	0.9974	0.9928	0.9720	0. 9393	0.8960	0.8438	0.7840
3	2				1.0000	1.0000	1.0000	1.0000	0.9999	0.9990	0.9966	0.9920	0. 9844	0.9730
4	0	0.9960	0.9920	0. 9881	0.9801	0.9606	0. 9224	0.8853	0.8145	0.6561	0.5220	0.4096	0.3164	0. 2401
4	1	1.0000	1.0000	0. 9999	0.9999	0.9994	0. 9977	0.9948	0.9860	0.9477	0.8905	0.8192	0. 7383	0.6517
4	2			1.0000	1.0000	1.0000	1.0000	0.9999	0.9995	0. 9963	0.9880	0.9728	0. 9492	0. 9163
4	3							1.0000	1.0000	0. 9999	0. 9995	0. 9984	0. 9961	0.9919
5	0	0. 9950	0.9900	0. 9851	0. 9752	0.9510	0. 9039	0.8587	0.7738	0. 5905	0. 4437	0. 3277	0. 2373	0. 1681
5	1	1.0000	1.0000	0. 9999	0. 9998	0.9990	0. 9962	0.9915	0.9774	0. 9185	0.8352	0. 7373	0.6328	0. 5282
5	2			1.0000	1.0000	1.0000	0. 9999	0. 9997	0. 9988	0. 9914	0.9734	0.9421	0.8965	0.8369
5	3						1.0000	1.0000	1.0000	0. 9995	0. 9978	0. 9933	0. 9844	0.9692
5	4										0. 9999			
6	0	0.9940	0. 9881	0. 9821	0.9704	0.9415	0.8858	0.8330	0. 7351	0. 5314	0.3771	0. 2621	0. 1780	0. 1176
6	1	1.0000	0. 9999	0. 9999	0.9996	0. 9985	0. 9943	0. 9875	0.9672	0.8857	0.7765	0.6554	0. 5339	0. 4202
6	2		1.0000	1. 0000	1.0000	1.0000								
6	3						1.0000	1.0000	0.9999	0. 9987	0.9941	0.9830	0.9624	0. 9295
6	4								1.0000	0. 9999				
6	5										1.0000			
7					0.9655									
7		1.0000			0. 9995									
7	2		1.0000	1.0000	1.0000	1.0000								
7	3						1. 0000	1. 0000						
7	4								1.0000	0. 9998				
7	5									1.0000	0. 9999			
7	6											1.0000		
8					0.9607									
8		1.0000			0. 9993									
8	2		1.0000	1.0000	1.0000									
8	3					1.0000	1. 0000	0. 9999	0. 9996	0. 9950	0. 9786	0. 9437	0.8862	0.8059

8	4	ì						1. 0000	1. 0000	0. 9996	0. 9971	0. 9896	0. 9727	0.9420
8	5									1.0000	0. 9998	0. 9988	0. 9958	0. 9887
8	6										1.0000	0.9999	0. 9996	0.9987
8	7											1.0000	1.0000	0.9999
9	0	0. 9910	0. 9821	0. 9733	0. 9559	0. 9135	0.8337	0.7602	0.6302	0. 3874	0. 2316	0. 1342	0.0751	0.0404
9	1	1.0000	0. 9999	0. 9997	0. 9991	0.9966	0. 9869	0. 9718	0. 9288	0.7748	0. 5995	0. 4362	0. 3003	0.1960
9	2		1.0000	1.0000	1.0000	0. 9999	0.9994	0.9980	0.9916	0.9470	0.8591	0.7382	0.6007	0.4628
9	3					1.0000	1.0000	0. 9999	0. 9994	0.9917	0.9661	0.9144	0.8343	0.7297
9	4							1.0000	1.0000	0. 9991	0. 9944	0.9804	0. 9511	0.9012
9	5									0. 9999	0. 9994	0.9969	0.9900	0.9747
9	6									1.0000	1.0000	0. 9997	0. 9987	0.9957
9	7											1.0000	0. 9999	0.9996
9	8												1.0000	1.0000
10	0	0.9900	0. 9802	0.9704	0. 9511	0.9044	0.8171	0.7374	0. 5987	0.3487	0. 1969	0.1074	0.0563	0.0282
10	1	1.0000	0. 9998	0.9996	0.9989	0.9957	0. 9838	0.9655	0. 9139	0.7361	0. 5443	0.3758	0. 2440	0. 1493
10	2		1.0000	1.0000	1.0000	0.9999	0.9991	0.9972	0. 9885	0. 9298	0.8202	0.6778	0. 5256	0.3828
10	3					1.0000	1.0000	0. 9999	0. 9990	0. 9872	0. 9500	0.8791	0.7759	0.6496
10	4							1.0000	0. 9999	0.9984	0.9901	0.9672	0. 9219	0.8497
10	5								1.0000	0. 9999	0. 9986	0.9936	0. 9803	0.9527
10	6									1.0000	0. 9999	0.9991	0. 9965	0.9894
10	7										1.0000	0.9999	0. 9996	0.9984
10	8											1.0000	1.0000	0.9999
10	9													1.0000
11	0	0. 9891	0. 9782	0.9675	0.9464	0.8953	0.8007	0.7153	0.5688	0.3138	0. 1673	0.0859	0.0422	0.0198
11	1	0. 9999	0. 9998	0.9995	0.9987	0.9948	0.9805	0. 9587	0.8981	0.6974	0. 4922	0.3221	0. 1971	0.1130
11	2	1.0000	1.0000	1.0000	1.0000	0. 9998	0. 9988	0. 9963	0. 9848	0. 9104	0.7788	0.6174	0. 4552	0.3127
11	3					1.0000	1.0000	0. 9998	0. 9984	0. 9815	0. 9306	0.8389	0.7133	0.5696
11	4							1.0000	0. 9999	0. 9972	0. 9841	0. 9496	0.8854	0.7897
11	5								1.0000	0. 9997	0. 9973	0. 9883	0. 9657	0.9218
11	6									1.0000			0. 9924	
11	7										1.0000	0. 9998	0. 9988	0.9957
11	8											1.0000	0. 9999	0.9994
11	9												1.0000	1.0000
12	0	0. 9881	0. 9763	0.9646	0.9416	0.8864	0. 7847	0.6938	0. 5404	0. 2824	0. 1422	0.0687	0.0317	0.0138
12	1	0. 9999	0. 9997	0. 9994	0. 9984	0. 9938	0. 9769	0.9514	0.8816	0.6590	0. 4435	0. 2749	0. 1584	0.0850
12	2	1.0000	1.0000	1.0000	1.0000	0. 9998	0. 9985	0. 9952	0. 9804	0.8891	0. 7358	0. 5583	0.3907	0. 2528
12	3					1.0000	0. 9999	0. 9997	0. 9978	0. 9744	0. 9078	0. 7946	0.6488	0. 4925
12	4						1.0000	1.0000						
12	5								1.0000	0. 9995	0. 9954	0. 9806	0. 9456	0.8822
12	6									0. 9999	0. 9993	0. 9961	0. 9857	0.9614

10	7	j i		ĺ		j i	ĺ		ı	ĺ		ĺ		ı	1. 0000	Λ	مممم	١٨	0004	Λ	0079	۱۸	0005
12 12															1.0000								
	8															1.	0000						
12	9																	1.	0000	1.	0000		
12	10		0.00	7.40	0.0017	0.0000	_	0775	_	7.000	0	6700	0 510		0.0540	0	1000	0	0550	0	مممم		0000
13		0. 9871																					
13		0. 9999																					
13		1. 0000	1.00	000	1.0000	1.0000																	
13	3						1.	0000							0. 9658								
13	4								1.	0000	1.	0000			0. 9935								
13	5												1.000		0. 9991								
13	6														0. 9999								
13	7														1.0000								
13	8															1.	0000						
13	9																	1.	0000				
13	10																			1.	0000		
13	11																						0000
14		0. 9861																					
14		0. 9999																					
14		1.0000	1.00	000	1.0000	1. 0000																	
14	3						1.	0000							0. 9559								
14	4								1.	0000	1.	0000			0. 9908								
14	5												1.000		0. 9985								
14	6														0. 9998								
14	7														1.0000	0.	9997	0.	9976	0.	9897	0.	9685
14	8															1.	0000						
14	9																	1.	0000	0.	9997	0.	9983
14	10																			1.	0000	0.	9998
14	11																						0000
15	0	0. 9851	0.9	704	0. 9559	0. 9276	0.	8601	0.	7386	0.	6333	0. 463	3	0. 2059	0.	0874	0.	0352	0.	0134	0.	0047
15		0. 9999																					
15	2	1.0000	1.00	000	1.0000																		
15	3					1.0000	1.	0000	0.	9998	0.	9992	0. 994	5	0. 9444	0.	8227	0.	6482	0.	4613	0.	2969
15	4								1.	0000	0.	9999	0.999)4	0. 9873	0.	9383	0.	8358	0.	6865	0.	5155
15	5										1.	0000	0.999	9	0. 9978	0.	9832	0.	9389	0.	8516	0.	7216
15	6												1.000	00	0. 9997	0.	9964	0.	9819	0.	9434	0.	8689
15	7														1.0000	0.	9994	0.	9958	0.	9827	0.	9500
15	8															0.	9999	0.	9992	0.	9958	0.	9848
15	9															1.	0000	0.	9999	0.	9992	0.	9963
15	10																	1.	0000	0.	9999	0.	9993
15	11																			1.	0000	0.	9999

15	12												1				ĺ			1. 0000
16		0. 9841	0. 96	85	0. 9531	0. 9229	0.	8515	0.	. 7238	0.	6143	0.	. 4401	0. 1853	0. 0743	0. 0281	0.	0100	
16		0. 9999																		
16		1.0000																		
16	3														0. 9316					
16	4														0. 9830					
16	5														0. 9967					
16	6														0. 9995					
16	7																			0. 9256
16	8														1. 0000	0. 9998	0. 9985	0.	9925	0. 9743
16	9															1. 0000	0. 9998	0.	9984	0. 9929
16	10																1.0000	0.	9997	0. 9984
16	11																	1.	0000	0. 9997
16	12																			1.0000
17	0	0. 9831	0. 96	65	0. 9502	0. 9183	0.	8429	0.	7093	0.	5958	0.	. 4181	0. 1668	0.0631	0. 0225	0.	0075	0.0023
17	1	0. 9999	0. 99	95	0. 9988	0. 9968	0.	9877	0.	. 9554	0.	9091	0.	. 7922	0. 4818	0. 2525	0. 1182	0.	0501	0. 0193
17	2	1.0000	1.00	00	1.0000	0. 9999	0.	9994	0.	. 9956	0.	9866	0.	. 9497	0. 7618	0. 5198	0. 3096	0.	1637	0.0774
17	3					1.0000	1.	0000	0.	. 9997	0.	9986	0.	. 9912	0. 9174	0. 7556	0. 5489	0.	3530	0. 2019
17	4								1.	. 0000	0.	9999	0.	. 9988	0. 9779	0. 9013	0. 7582	0.	5739	0. 3887
17	5										1.	0000	0.	. 9999	0. 9953	0. 9681	0.8943	0.	7653	0. 5968
17	6												1.	. 0000	0. 9992	0. 9917	0. 9623	0.	8929	0.7752
17	7														0. 9999	0. 9983	0. 9891	0.	9598	0.8954
17	8														1.0000	0. 9997	0. 9974	0.	9876	0. 9597
17	9															1.0000	0. 9995	0.	9969	0. 9873
17	10															1.0000	0. 9999	0.	9994	0. 9968
17	11																1.0000	0.	9999	0. 9993
17	12																	1.	0000	0. 9999
17	13																			1.0000
18	0	0. 9822	0.96	46	0. 9474	0. 9137	0.	8345	0.	6951	0.	5780	0.	. 3972	0. 1501	0. 0536	0.0180	0.	0056	0.0016
18	1	0. 9998	0. 99	94	0. 9987	0. 9964	0.	9862	0.	9505	0.	8997	0.	. 7735	0. 4503	0. 2241	0.0991	0.	0395	0.0142
18	2	1.0000	1.00	00	1.0000	0. 9999	0.	9993	0.	. 9948	0.	9843	0.	. 9419	0. 7338	0. 4797	0. 2713	0.	1353	0.0600
18	3					1.0000	1.	0000	0.	. 9996	0.	9982	0.	. 9891	0. 9018	0. 7202	0.5010	0.	3057	0. 1646
18	4								1.	. 0000										0. 3327
18	5										1.	0000	0.	. 9998	0. 9936	0. 9581	0.8671	0.	7175	0. 5344
18	6												1.	. 0000	0. 9988	0. 9882	0. 9487	0.	8610	0.7217
18	7																			0.8593
18	8														1.0000					0. 9404
18	9																			0.9790
18	10															1.0000				0. 9939
18	11																1.0000	0.	9998	0. 9986

18	12												1. 0000	0. 9997
18	13													1.0000
19		0. 9812	0. 9627	0. 9445	0. 9092	0. 8262	0. 6812	0. 5606	0. 3774	0. 1351	0. 0456	0. 0144	0.0042	
19								0.8900						
19								0. 9817						
19	3							0. 9978						
19	4							0. 9998						
19	5							1. 0000	0. 9998	0. 9914	0. 9463	0.8369	0.6678	0. 4739
19	6								1.0000	0. 9983	0. 9837	0. 9324	0.8251	0. 6655
19	7												0. 9225	
19	8									1.0000	0. 9992	0. 9933	0. 9713	0. 9161
19	9										0. 9999	0. 9984	0. 9911	0.9674
19	10										1.0000	0. 9997	0. 9977	0. 9895
19	11											1.0000	0. 9995	0.9972
19	12												0. 9999	0. 9994
19	13												1.0000	0. 9999
19	14													1.0000
20	0	0.9802	0.9608	0.9417	0.9046	0.8179	0.6676	0.5438	0. 3585	0. 1216	0.0388	0.0115	0.0032	0.0008
20	1	0. 9998	0. 9993	0. 9984	0. 9955	0. 9831	0.9401	0.8802	0. 7358	0.3917	0. 1756	0.0692	0.0243	0.0076
20	2	1.0000	1.0000	1.0000	0. 9999	0. 9990	0.9929	0.9790	0. 9245	0.6769	0. 4049	0.2061	0.0913	0.0355
20	3				1.0000	1.0000	0.9994	0. 9973	0. 9841	0.8670	0.6477	0.4114	0. 2252	0.1071
20	4						1.0000	0. 9997	0. 9974	0. 9568	0.8298	0.6296	0.4148	0. 2375
20	5							1.0000	0. 9997	0. 9887	0. 9327	0.8042	0.6172	0.4164
20	6								1.0000	0. 9976	0.9781	0.9133	0. 7858	0.6080
20	7									0. 9996	0. 9941	0.9679	0.8982	0.7723
20	8									0. 9999	0. 9987	0.9900	0. 9591	0.8867
20	9									1.0000	0. 9998	0.9974	0. 9861	0.9520
20	10										1.0000	0. 9994	0.9961	0.9829
20	11											0. 9999	0.9991	0.9949
20	12											1.0000	0. 9998	0.9987
20	13												1.0000	0. 9997
20	14													1.0000
25								0.4670						
25	1	0. 9997	0. 9988	0.9974	0. 9931	0.9742	0. 9114	0.8280	0.6424	0. 2712	0.0931	0.0274	0.0070	0.0016
25	2	1.0000	1.0000	0. 9999	0. 9997	0.9980	0. 9868	0.9620	0.8729	0. 5371	0. 2537	0.0982	0.0321	0.0090
25	3			1.0000	1.0000			0. 9938						
25	4					1.0000		0. 9992						
25	5						1.0000	0. 9999						
25	6							1. 0000					0. 5611	
25	7								1. 0000	0. 9977	0. 9745	0.8909	0. 7265	0. 5118

25	8									0. 9995	0. 9920	0. 9532	0.8506	0. 6769
25	9									0. 9999	0.9979	0. 9827	0. 9287	0.8106
25	10									1.0000	0.9995	0. 9944	0.9703	0.9022
25	11										0.9999	0. 9985	0. 9893	0. 9558
25	12										1.0000	0. 9996	0.9966	0.9825
25	13											0. 9999	0. 9991	0.9940
25	14											1.0000	0. 9998	0.9982
25	15												1.0000	0. 9995
25	16													0. 9999
25	17													1.0000
30	0	0. 9704	0. 9417	0. 9138	0.8604	0. 7397	0. 5455	0.4010	0. 2146	0.0424	0.0076	0.0012	0.0002	0.0000
30	1	0. 9996	0. 9983	0. 9963	0.9901	0. 9639	0.8795	0.7731	0. 5535	0. 1837	0.0480	0.0105	0.0020	0.0003
30	2	1.0000	1.0000	0. 9999	0.9995	0. 9967	0. 9783	0.9399	0.8122	0.4114	0. 1514	0.0442	0.0106	0.0021
30	3			1.0000	1.0000	0. 9998	0. 9971	0.9881	0. 9392	0.6474	0.3217	0. 1227	0.0374	0.0093
30	4					1.0000	0. 9997	0.9982	0. 9844	0.8245	0. 5245	0. 2552	0.0979	0.0302
30	5						1.0000	0.9998	0. 9967	0. 9268	0.7106	0. 4275	0. 2026	0.0766
30	6							1.0000	0.9994	0.9742	0.8474	0.6070	0.3481	0. 1595
30	7								0. 9999	0.9922	0. 9302	0.7608	0.5143	0. 2814
30	8								1.0000	0.9980	0.9722	0.8713	0.6736	0. 4315
30	9									0. 9995	0. 9903	0. 9389	0.8034	0.5888
30	10									0. 9999	0.9971	0. 9744	0.8943	0.7304
30	11									1.0000	0. 9992	0. 9905	0. 9493	0.8407
30	12										0. 9998	0. 9969	0.9784	0. 9155
30	13										1.0000	0. 9991	0. 9918	0.9599
30	14											0. 9998	0. 9973	0. 9831
30	15											0. 9999	0. 9992	0.9936
30	16											1.0000	0. 9998	0.9979
30	17												0. 9999	
30	18												1.0000	0. 9998
30	19													1.0000

附表 2 泊松分布表

$$1 - F(x - 1) = \sum_{k=x}^{\infty} \frac{\lambda^k}{k!} e^{-\lambda}$$

X	λ =0.1	$\lambda = 0.2$	$\lambda = 0.3$	λ =0.4	$\lambda = 0.5$	$\lambda = 0.6$	$\lambda = 0.7$
		1. 000000					
1	0. 095163	0. 181269	0. 259182	0. 329680	0. 393469	0. 451188	0.503415

0							
2	0.004679	0. 017523	0. 036936	0.061552	0.090204	0. 121901	0. 155805
3	0.000155	0.001148	0.003599	0.007926	0.014388	0.023115	0.034142
4	0.000004	0.000057	0.000266	0.000776	0.001752	0.003358	0.005753
5	0.000000	0.000002	0.000016	0.000061	0.000172	0.000394	0.000786
6	0.000000	0.000000	0.000001	0.000004	0.000014	0.000039	0.000090
7	0.000000	0.000000	0.000000	0.000000	0.000001	0.000003	0.000009
8	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000001
х	λ =0.8	λ =0.9	$\lambda = 1.0$	λ =1.2	$\lambda = 1.4$	$\lambda = 1.6$	λ =1.8
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	0. 550671	0. 593430	0.632121	0.698806	0.753403	0.798103	0.834701
2	0. 191208	0. 227518	0. 264241	0. 337373	0.408167	0.475069	0. 537163
3	0. 047423	0.062857	0.080301	0. 120513	0. 166502	0. 216642	0. 269379
4	0.009080	0. 013459	0.018988	0. 033769	0.053725	0.078813	0. 108708
5	0.001411	0.002344	0.003660	0.007746	0. 014253	0. 023682	0.036407
6	0.000184	0.000343	0.000594	0.001500	0.003201	0.006040	0.010378
7	0.000021	0.000043	0.000083	0.000251	0.000622	0.001336	0.002569
8	0.000002	0.000005	0.000010	0.000037	0.000107	0.000260	0.000562
9	0.000000	0.000000	0.000001	0.000005	0.000016	0.000045	0.000110
10	0.000000	0.000000	0.000000	0.000001	0.000002	0.000007	0.000019
11	0.000000	0.000000	0. 000000	0. 000000	0. 000000	0.000001	0. 000003
11 x	$\lambda = 2.0$	$\lambda = 2.5$	$\lambda = 3.0$	$\lambda = 3.5$	0. 000000 λ =4.0	$\lambda = 4.5$	$\lambda = 5.0$
		λ =2.5	λ =3.0	λ =3.5		λ =4.5	λ =5.0
х	λ =2.0	λ =2.5 1. 000000	$\lambda = 3.0$ 1. 000000	$\lambda = 3.5$ 1. 000000	λ =4.0	λ =4.5 1. 000000	λ =5.0 1. 000000
0	λ =2.0 1. 000000	λ =2.5 1. 000000 0. 917915	λ =3.0 1. 000000 0. 950213	λ =3.5 1. 000000 0. 969803	λ =4.0 1. 000000	λ =4.5 1. 000000 0. 988891	λ =5.0 1. 000000 0. 993262
<i>x</i> 0 1	λ =2.0 1. 000000 0. 864665	λ =2.5 1. 000000 0. 917915 0. 712703	λ =3.0 1. 000000 0. 950213 0. 800852	λ =3.5 1. 000000 0. 969803 0. 864112	λ =4.0 1. 000000 0. 981684	λ =4.5 1. 000000 0. 988891 0. 938901	λ =5.0 1. 000000 0. 993262 0. 959572
x 0 1 2	λ =2.0 1. 000000 0. 864665 0. 593994	λ =2.5 1. 000000 0. 917915 0. 712703	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153	λ =4.0 1. 000000 0. 981684 0. 908422	λ =4.5 1.000000 0.988891 0.938901 0.826422	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348
0 1 2 3	λ =2.0 1.000000 0.864665 0.593994 0.323324	λ =2.5 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424	λ =3.0 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768	λ =3.5 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367	λ =4.0 1. 000000 0. 981684 0. 908422 0. 761897	λ =4.5 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974
x 0 1 2 3 4	λ =2.0 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877	λ =2.5 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555	λ =4.0 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896	$\lambda = 5.0$ 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507
x 0 1 2 3 4 5	λ =2.0 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039
x 0 1 2 3 4 5 6	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949	$\lambda = 5.0$ 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817
x 0 1 2 3 4 5 6 7	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372
x 0 1 2 3 4 5 6 7 8	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372
x 0 1 2 3 4 5 6 7 8 9	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237	λ =2.5 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828
x 0 1 2 3 4 5 6 7 8 9 10	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237 0. 000046	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140 0. 000277 0. 000062	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102 0. 000292	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315 0. 001019	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363 0. 008132	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093 0. 006669	λ = 5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828 0. 013695
x 0 1 2 3 4 5 6 7 8 9 10 11	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237 0. 000046 0. 000008	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140 0. 000277 0. 000062	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102 0. 000292 0. 000071	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315 0. 001019 0. 000289	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363 0. 008132 0. 002840	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093 0. 006669	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828 0. 013695 0. 005453
x 0 1 2 3 4 5 6 7 8 9 10 11 12	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237 0. 000046 0. 000008 0. 000001	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140 0. 000277 0. 000062 0. 000013	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102 0. 000292 0. 000071 0. 000016	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315 0. 001019 0. 000289 0. 000076	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363 0. 008132 0. 002840 0. 000915	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093 0. 006669 0. 002404 0. 000805	λ = 5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828 0. 013695 0. 005453 0. 002019
x 0 1 2 3 4 5 6 7 8 9 10 11 12 13	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237 0. 000046 0. 000008 0. 0000001 0. 0000000	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140 0. 000277 0. 000062 0. 000013 0. 0000002	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102 0. 000292 0. 000071 0. 000016 0. 000003	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315 0. 001019 0. 000289 0. 000076 0. 000019	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363 0. 008132 0. 002840 0. 000915 0. 000274	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093 0. 006669 0. 002404 0. 000805	λ = 5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828 0. 013695 0. 005453 0. 002019
x 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237 0. 000046 0. 000008 0. 0000001 0. 0000000 0. 0000000	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140 0. 000277 0. 000062 0. 0000013 0. 0000000 0. 0000000	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102 0. 000292 0. 000071 0. 000016 0. 000003 0. 000001	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315 0. 001019 0. 0000289 0. 000076 0. 000004	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363 0. 008132 0. 002840 0. 000915 0. 000274 0. 000076	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093 0. 006669 0. 002404 0. 000805 0. 000252	λ =5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828 0. 013695 0. 005453 0. 002019 0. 000698 0. 000226
x 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	$\lambda = 2.0$ 1. 000000 0. 864665 0. 593994 0. 323324 0. 142877 0. 052653 0. 016564 0. 004534 0. 001097 0. 000237 0. 000046 0. 000008 0. 0000001 0. 0000000 0. 0000000	$\lambda = 2.5$ 1. 000000 0. 917915 0. 712703 0. 456187 0. 242424 0. 108822 0. 042021 0. 014187 0. 004247 0. 001140 0. 000277 0. 000062 0. 000013 0. 000000 0. 000000 0. 000000	$\lambda = 3.0$ 1. 000000 0. 950213 0. 800852 0. 576810 0. 352768 0. 184737 0. 083918 0. 033509 0. 011905 0. 003803 0. 001102 0. 000292 0. 000071 0. 000003 0. 0000001 0. 0000000	$\lambda = 3.5$ 1. 000000 0. 969803 0. 864112 0. 679153 0. 463367 0. 274555 0. 142386 0. 065288 0. 026739 0. 009874 0. 003315 0. 001019 0. 000289 0. 000076 0. 000019 0. 000004 0. 000001	$\lambda = 4.0$ 1. 000000 0. 981684 0. 908422 0. 761897 0. 566530 0. 371163 0. 214870 0. 110674 0. 051134 0. 021363 0. 008132 0. 002840 0. 000915 0. 0000274 0. 000076 0. 000020	$\lambda = 4.5$ 1. 000000 0. 988891 0. 938901 0. 826422 0. 657704 0. 467896 0. 297070 0. 168949 0. 086586 0. 040257 0. 017093 0. 006669 0. 002404 0. 000805 0. 000252 0. 000074	λ = 5.0 1. 000000 0. 993262 0. 959572 0. 875348 0. 734974 0. 559507 0. 384039 0. 237817 0. 133372 0. 068094 0. 031828 0. 013695 0. 002019 0. 000698 0. 000226 0. 0000698

附表 3 标准正态分布表

$$\Phi(x) = \int_{-\infty}^{x} \frac{1}{\sqrt{2\pi}} e^{-t^2/2} dt$$

0. 0 0. 5000 0. 5040 0. 5080 0. 5120 0. 5160 0. 5199 0. 5239 0. 5279 0. 5319 0. 5339 0. 1 0. 5398 0. 5438 0. 5478 0. 5517 0. 5557 0. 5596 0. 5636 0. 5675 0. 5714 0. 573 0. 2 0. 5793 0. 5832 0. 5871 0. 5948 0. 5987 0. 6026 0. 6064 0. 6103 0. 614 0. 3 0. 6179 0. 6217 0. 6255 0. 6293 0. 6331 0. 6368 0. 6406 0. 6443 0. 6480 0. 65 0. 4 0. 6554 0. 6591 0. 6628 0. 6664 0. 6700 0. 6736 0. 6772 0. 6808 0. 6844 0. 68 0. 5 0. 6915 0. 6985 0. 7019 0. 7054 0. 7088 0. 7123 0. 7157 0. 7190 0. 722 0. 6 0. 7257 0. 7291 0. 7324 0. 7357 0. 7389 0. 7422 0. 7454 0. 7744 0. 7764 0. 7794 0. 7794 0. 7823 0. 783	0 1 2
0. 2 0. 5793 0. 5832 0. 5871 0. 5910 0. 5948 0. 5987 0. 6026 0. 6064 0. 6103 0. 6140 0. 3 0. 6179 0. 6217 0. 6255 0. 6293 0. 6331 0. 6368 0. 6406 0. 6443 0. 6480 0. 659 0. 4 0. 6554 0. 6591 0. 6628 0. 6664 0. 6700 0. 6736 0. 6772 0. 6808 0. 6844 0. 68 0. 5 0. 6915 0. 6950 0. 6985 0. 7019 0. 7054 0. 7088 0. 7123 0. 7157 0. 7190 0. 725 0. 6 0. 7257 0. 7291 0. 7324 0. 7357 0. 7389 0. 7422 0. 7454 0. 7486 0. 7517 0. 756 0. 7 0. 7580 0. 7611 0. 7642 0. 7673 0. 7704 0. 7734 0. 7764 0. 7794 0. 7823 0. 8051 0. 8078 0. 8106 0. 813 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 833 1. 1 0. 8643 0. 8665 0. 8	5000 0. 5040 0. 5080
0. 3 0. 6179 0. 6217 0. 6255 0. 6293 0. 6331 0. 6368 0. 6406 0. 6443 0. 6480 0. 65 0. 4 0. 6554 0. 6591 0. 6628 0. 6664 0. 6700 0. 6736 0. 6772 0. 6808 0. 6844 0. 683 0. 5 0. 6915 0. 6950 0. 6985 0. 7019 0. 7054 0. 7088 0. 7123 0. 7157 0. 7190 0. 725 0. 6 0. 7257 0. 7291 0. 7324 0. 7357 0. 7389 0. 7422 0. 7454 0. 7486 0. 7517 0. 757 0. 7 0. 7580 0. 7611 0. 7642 0. 7673 0. 7704 0. 7734 0. 7764 0. 7794 0. 7794 0. 7764 0. 7794 0. 7823 0. 8023 0. 8051 0. 8078 0. 8106 0. 813 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 833 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8990 0. 8810 0. 893 <td>5398 0. 5438 0. 5478</td>	5398 0. 5438 0. 5478
0. 4 0. 6554 0. 6591 0. 6628 0. 6664 0. 6700 0. 6736 0. 6772 0. 6808 0. 6844 0. 683 0. 5 0. 6915 0. 6950 0. 6985 0. 7019 0. 7054 0. 7088 0. 7123 0. 7157 0. 7190 0. 725 0. 6 0. 7257 0. 7291 0. 7324 0. 7357 0. 7389 0. 7422 0. 7454 0. 7486 0. 7517 0. 757 0. 7 0. 7580 0. 7611 0. 7642 0. 7673 0. 7704 0. 7734 0. 7764 0. 7794 0. 7794 0. 7823 0. 7823 0. 8 0. 7881 0. 7910 0. 7939 0. 7967 0. 7995 0. 8023 0. 8051 0. 8078 0. 8106 0. 8136 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 836 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 883 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0.	5793 0. 5832 0. 5871
0. 5 0. 6915 0. 6950 0. 6985 0. 7019 0. 7054 0. 7088 0. 7123 0. 7157 0. 7190 0. 725 0. 6 0. 7257 0. 7291 0. 7324 0. 7357 0. 7389 0. 7422 0. 7454 0. 7486 0. 7517 0. 756 0. 7 0. 7580 0. 7611 0. 7642 0. 7673 0. 7704 0. 7734 0. 7764 0. 7794 0. 7823 0. 7881 0. 8 0. 7881 0. 7910 0. 7939 0. 7967 0. 7995 0. 8023 0. 8051 0. 8078 0. 8106 0. 8136 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 8365 1. 0 0. 8413 0. 8438 0. 8461 0. 8485 0. 8508 0. 8531 0. 8554 0. 8577 0. 8599 0. 885 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 883 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0	3179 0. 6217 0. 6255
0. 6 0. 7257 0. 7291 0. 7324 0. 7357 0. 7389 0. 7422 0. 7454 0. 7486 0. 7517 0. 7540 0. 7 0. 7580 0. 7611 0. 7642 0. 7673 0. 7704 0. 7734 0. 7764 0. 7794 0. 7823 0. 7823 0. 8 0. 7881 0. 7910 0. 7939 0. 7967 0. 7995 0. 8023 0. 8051 0. 8078 0. 8106 0. 813 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 836 1. 0 0. 8413 0. 8438 0. 8461 0. 8485 0. 8508 0. 8531 0. 8554 0. 8577 0. 8599 0. 885 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 883 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0.	3554 0. 6591 0. 6628
0. 7 0. 7580 0. 7611 0. 7642 0. 7673 0. 7704 0. 7734 0. 7764 0. 7794 0. 7794 0. 7764 0. 7794 0. 7794 0. 7782 0. 7823 0. 783 0. 8 0. 7881 0. 7910 0. 7939 0. 7967 0. 7995 0. 8023 0. 8051 0. 8078 0. 8106 0. 813 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 836 1. 0 0. 8413 0. 8438 0. 8461 0. 8485 0. 8508 0. 8531 0. 8554 0. 8577 0. 8599 0. 869 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 885 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 93 1. 4 0. 919	3915 0. 6950 0. 6985
0. 8 0. 7881 0. 7910 0. 7939 0. 7967 0. 7995 0. 8023 0. 8051 0. 8078 0. 8106 0. 8136 0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 8365 1. 0 0. 8413 0. 8438 0. 8461 0. 8485 0. 8508 0. 8531 0. 8554 0. 8577 0. 8599 0. 869 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 883 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 91 1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 93	7257 0. 7291 0. 7324
0. 9 0. 8159 0. 8186 0. 8212 0. 8238 0. 8264 0. 8289 0. 8315 0. 8340 0. 8365 0. 8365 1. 0 0. 8413 0. 8438 0. 8461 0. 8485 0. 8508 0. 8531 0. 8554 0. 8577 0. 8599 0. 869 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 883 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 91 1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 9429	7580 0. 7611 0. 7642
1. 0 0. 8413 0. 8438 0. 8461 0. 8485 0. 8508 0. 8531 0. 8554 0. 8577 0. 8599 0. 865 1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 881 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 91 1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 9429	7881 0. 7910 0. 7939
1. 1 0. 8643 0. 8665 0. 8686 0. 8708 0. 8729 0. 8749 0. 8770 0. 8790 0. 8810 0. 883 1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 91 1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 946	3159 0. 8186 0. 8212
1. 2 0. 8849 0. 8869 0. 8888 0. 8907 0. 8925 0. 8944 0. 8962 0. 8980 0. 8997 0. 90 1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 91 1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 946	3413 0. 8438 0. 8461
1. 3 0. 9032 0. 9049 0. 9066 0. 9082 0. 9099 0. 9115 0. 9131 0. 9147 0. 9162 0. 917 1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 9449	3643 0. 8665 0. 8686
1. 4 0. 9192 0. 9207 0. 9222 0. 9236 0. 9251 0. 9265 0. 9279 0. 9292 0. 9306 0. 93 1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 944	3849 0. 8869 0. 8888
1. 5 0. 9332 0. 9345 0. 9357 0. 9370 0. 9382 0. 9394 0. 9406 0. 9418 0. 9429 0. 94	0.9049 0.9066
	9192 0. 9207 0. 9222
	9332 0. 9345 0. 9357
1. 6 0. 9452 0. 9463 0. 9474 0. 9484 0. 9495 0. 9505 0. 9515 0. 9525 0. 9535 0. 9545 0. 955 0. 9555 0. 9555 0. 9555 0	9452 0. 9463 0. 9474
1. 7 0. 9554 0. 9564 0. 9573 0. 9582 0. 9591 0. 9599 0. 9608 0. 9616 0. 9625 0. 963	9554 0. 9564 0. 9573
1. 8 0. 9641 0. 9649 0. 9656 0. 9664 0. 9671 0. 9678 0. 9686 0. 9693 0. 9699 0. 970	9641 0. 9649 0. 9656
1. 9 0. 9713 0. 9719 0. 9726 0. 9732 0. 9738 0. 9744 0. 9750 0. 9756 0. 9761 0. 97	9713 0. 9719 0. 9726
2. 0 0. 9772 0. 9778 0. 9783 0. 9788 0. 9793 0. 9798 0. 9803 0. 9808 0. 9812 0. 98	9772 0. 9778 0. 9783
2. 1 0. 9821 0. 9826 0. 9830 0. 9834 0. 9838 0. 9842 0. 9846 0. 9850 0. 9854 0. 98	9821 0. 9826 0. 9830
2. 2 0. 9861 0. 9864 0. 9868 0. 9871 0. 9875 0. 9878 0. 9881 0. 9884 0. 9887 0. 988	9861 0. 9864 0. 9868
2. 3 0. 9893 0. 9896 0. 9898 0. 9901 0. 9904 0. 9906 0. 9909 0. 9911 0. 9913 0. 99	9893 0. 9896 0. 9898
2. 4 0. 9918 0. 9920 0. 9922 0. 9925 0. 9927 0. 9929 0. 9931 0. 9932 0. 9934 0. 993	9918 0. 9920 0. 9922
2. 5 0. 9938 0. 9940 0. 9941 0. 9943 0. 9945 0. 9946 0. 9948 0. 9949 0. 9951 0. 995	9938 0. 9940 0. 9941
2. 6 0. 9953 0. 9955 0. 9956 0. 9957 0. 9959 0. 9960 0. 9961 0. 9962 0. 9963 0. 996	9953 0. 9955 0. 9956
2. 7 0. 9965 0. 9966 0. 9967 0. 9968 0. 9969 0. 9970 0. 9971 0. 9972 0. 9973 0. 99	9965 0. 9966 0. 9967
2. 8 0. 9974 0. 9975 0. 9976 0. 9977 0. 9977 0. 9978 0. 9979 0. 9979 0. 9980 0. 9980	9974 0. 9975 0. 9976
2. 9 0. 9981 0. 9982 0. 9982 0. 9983 0. 9984 0. 9984 0. 9985 0. 9985 0. 9986 0. 998	9981 0. 9982 0. 9982
3. 0.9987 0.9990 0.9993 0.9995 0.9997 0.9998 0.9998 0.9999 0.9999 1.000	9987 0. 9990 0. 9993

注: 表中末行为函数值 $\Phi(3.0), \Phi(3.1), \dots, \Phi(3.9)$.

附表 4 t 分布表 $P\{t(n) > t_{\alpha}(n)\} = \alpha$

n	α =0.25	α =0.1	α =0.05	α =0.025	α =0.01	α =0.005
1	1.0000	3. 0777	6. 3138	12. 7062	31. 8205	63. 6567
2 3	0.8165	1.8856	2. 9200	4. 3027	6. 9646	9. 9248
	0. 7649	1.6377	2. 3534	3. 1824	4. 5407	5. 8409
4	0.7407	1.5332	2. 1318	2. 7764	3. 7469	4. 6041
5 6	0. 7267	1.4759	2. 0150	2. 5706	3. 3649	4. 0321
	0.7176	1. 4398	1. 9432	2. 4469	3. 1427	3. 7074
7	0.7111	1. 4149	1.8946	2. 3646	2. 9980	3. 4995
8 9	0. 7064 0. 7027	1.3968	1.8595	2. 3060	2. 8965	3. 3554 3. 2498
10	0. 7027	1. 3830 1. 3722	1. 8331 1. 8125	2. 2622 2. 2281	2. 8214 2. 7638	3. 1693
11	0. 6974	1. 3634	1. 7959	2. 22010	2. 7181	3. 1058
12	0. 6955	1. 3562	1. 7823	2. 1788	2. 6810	3. 1036
13	0. 6938	1. 3502	1. 7709	2. 1604	2. 6503	3. 0123
14	0. 6924	1. 3450	1. 7613	2. 1448	2. 6245	2. 9768
15	0.6912	1. 3406	1. 7531	2. 1314	2. 6025	2. 9467
16	0. 6901	1. 3368	1. 7459	2. 1199	2. 5835	2. 9208
17	0. 6892	1. 3334	1. 7396	2. 1098	2. 5669	2. 8982
18	0. 6884	1. 3304	1. 7341	2. 1009	2. 5524	2. 8784
19	0. 6876	1. 3277	1. 7291	2. 0930	2. 5395	2. 8609
20	0. 6870	1. 3253	1. 7247	2. 0860	2. 5280	2. 8453
$\frac{21}{21}$	0. 6864	1. 3232	1. 7207	2.0796	2. 5176	2. 8314
$\frac{1}{22}$	0. 6858	1. 3212	1. 7171	2.0739	2. 5083	2. 8188
$\overline{23}$	0. 6853	1.3195	1. 7139	2.0687	2. 4999	2.8073
24	0.6848	1.3178	1.7109	2.0639	2.4922	2. 7969
25	0.6844	1.3163	1.7081	2.0595	2.4851	2. 7874
26	0.6840	1.3150	1.7056	2.0555	2.4786	2.7787
27	0.6837	1.3137	1.7033	2.0518	2.4727	2.7707
28	0.6834	1.3125	1. 7011	2.0484	2. 4671	2. 7633
29	0.6830	1.3114	1. 6991	2.0452	2.4620	2.7564
30	0.6828	1.3104	1. 6973	2.0423	2. 4573	2.7500
31	0.6825	1.3095	1. 6955	2.0395	2. 4528	2. 7440
32	0.6822	1.3086	1. 6939	2.0369	2. 4487	2. 7385
33	0.6820	1.3077	1. 6924	2.0345	2. 4448	2. 7333
34	0. 6818	1.3070	1.6909	2. 0322	2. 4411	2. 7284
35	0. 6816	1.3062	1. 6896	2. 0301	2. 4377	2. 7238
36	0. 6814	1. 3055	1. 6883	2. 0281	2. 4345	2. 7195
37	0. 6812	1. 3049	1. 6871	2. 0262	2. 4314	2. 7154
38	0.6810	1. 3042	1.6860	2. 0244	2. 4286	2. 7116
39	0.6808	1. 3036	1. 6849	2. 0227	2. 4258	2. 7079
40	0.6807	1.3031	1. 6839	2. 0211	2. 4233	2. 7045
41	0.6805	1. 3025	1.6829	2. 0195	2. 4208	2. 7012
42	0. 6804 0. 6802	1.3020	1.6820	2.0181	2. 4185	2. 6981
43 44	0. 6802	1. 3016 1. 3011	1.6811	2. 0167 2. 0154	2. 4163	2. 6951 2. 6923
44 45	0. 6801	1. 3011	1. 6802 1. 6794	2.0134	2. 4141 2. 4121	2. 6896
<u>+10</u>	0.0000	1.3000	1.0194	4. U1 1 1	2. 1 121	4.0090

附表 5 χ^2 分布表 $P\left\{\chi^2(n) > \chi^2_\alpha(n)\right\} = \alpha$

n	a =0.995	0.99	0.975	0.95	0.90	0.75
1	0.0000	0.0002	0.0010	0.0039	0. 0158	0. 1015
2	0.0100	0.0201	0.0506	0. 1026	0. 2107	0. 5754
3	0.0717	0. 1148	0. 2158	0. 3518	0. 5844	1. 2125
4	0. 2070	0. 2971	0. 4844	0.7107	1.0636	1. 9226
5	0. 4118	0. 5543	0.8312	1. 1455	1.6103	2.6746
6	0. 6757	0.8721	1. 2373	1.6354	2. 2041	3. 4546
7	0. 9893	1. 2390	1.6899	2. 1673	2.8331	4. 2549
8	1. 3444	1.6465	2. 1797	2. 7326	3. 4895	5. 0706
9	1. 7349	2.0879	2.7004	3. 3251	4. 1682	5. 8988
10	2. 1558	2. 5582	3. 2470	3. 9403	4.8652	6. 7372
11	2.6032	3. 0535	3.8157	4. 5748	5. 5778	7. 5841
12	3. 0738	3. 5706	4. 4038	5. 2260	6. 3038	8. 4384
13	3. 5650	4. 1069	5.0087	5. 8919	7. 0415	9. 2991
14	4. 0747	4. 6604	5. 6287	6. 5706	7. 7895	10. 1653
15	4. 6009	5. 2294	6. 2621	7. 2609	8. 5468	11. 0365
16	5. 1422	5.8122	6. 9077	7. 9616	9. 3122	11. 9122
17	5. 6973	6. 4077	7. 5642	8. 6718	10.0852	12. 7919
18	6. 2648	7. 0149	8. 2307	9. 3904	10.8649	13. 6753
19	6. 8439	7. 6327	8. 9065	10. 1170	11. 6509	14. 5620
20	7. 4338	8. 2604	9. 5908	10.8508	12. 4426	15. 4518
21	8. 0336	8.8972	10. 2829	11. 5913	13. 2396	16. 3444
22	8. 6427	9. 5425	10. 9823	12. 3380	14. 0415	17. 2396
23	9. 2604	10. 1957	11.6885	13. 0905	14. 8480	18. 1373
24	9. 8862	10.8563	12. 4011	13. 8484	15. 6587	19. 0373
25	10. 5196	11. 5240	13. 1197	14. 6114	16. 4734	19. 9393
26	11. 1602	12. 1982	13. 8439	15. 3792	17. 2919	20. 8434
27	11. 8077	12.8785	14. 5734	16. 1514	18. 1139	21. 7494
28	12. 4613	13. 5647	15. 3079	16. 9279	18. 9392	22. 6572
29	13. 1211	14. 2564	16. 0471	17. 7084	19. 7677	23. 5666
30	13. 7867	14. 9535	16. 7908	18. 4927	20. 5992	24. 4776
31	14. 4577	15. 6555	17. 5387	19. 2806	21. 4336	25. 3901
32	15. 1340	16. 3622	18. 2908	20. 0719	22. 2706	26. 3041
33	15. 8152	17. 0735	19. 0467	20. 8665	23. 1102	27. 2194
34	16. 5013	17. 7891	19. 8062	21. 6643	23. 9522	28. 1361
35	17. 1917	18. 5089	20. 5694	22. 4650	24. 7966	29. 0540
36	17. 8868	19. 2326	21. 3359	23. 2686	25. 6433	29. 9730
37	18. 5859	19. 9603	22. 1056	24. 0749	26. 4921	30. 8933
38	19. 2888	20. 6914	22. 8785	24. 8839	27. 3430	31. 8146
39	19. 9958	21. 4261	23. 6543	25. 6954	28. 1958	32. 7369
40	20. 7066	22. 1642	24. 4331	26. 5093	29. 0505	33. 6603
41	21. 4208	22. 9056	25. 2145	27. 3256	29. 9071	34. 5846
42	22. 1384	23. 6501	25. 9987	28. 1440	30. 7654	35. 5099
43	22. 8596	24. 3976	26. 7854	28. 9647	31. 6255	36. 4361
44	23. 5836	25. 1480	27. 5745	29. 7875	32. 4871	37. 3631
45	24. 3110	25. 9012	28. 3662	30. 6123	33. 3504	38. 2910

						续表
n	α =0.25	0.1	0.05	0.025	0.01	0.005
1	1. 3233	2. 7055	3.8415	5. 0239	6. 6349	7.8794
2	2. 7726	4.6052	5. 9915	7. 3778	9. 2104	10. 5965
3	4. 1083	6. 2514	7.8147	9. 3484	11. 3449	12.8381
4	5. 3853	7. 7794	9. 4877	11. 1433	13. 2767	14.8602
5	6. 6257	9. 2363	11.0705	12.8325	15. 0863	16.7496
6	7.8408	10.6446	12. 5916	14. 4494	16.8119	18. 5475
7	9. 0371	12.0170	14. 0671	16.0128	18. 4753	20. 2777
8	10. 2189	13. 3616	15. 5073	17. 5345	20. 0902	21.9549
9	11. 3887	14. 6837	16. 9190	19. 0228	21.6660	23. 5893
10	12. 5489	15. 9872	18. 3070	20. 4832	23. 2093	25. 1881
11	13. 7007	17. 2750	19.6752	21. 9200	24.7250	26.7569
12	14.8454	18. 5493	21.0261	23. 3367	26. 2170	28. 2997
13	15. 9839	19.8119	22. 3620	24. 7356	27. 6882	29.8193
14	17. 1169	21.0641	23. 6848	26. 1189	29. 1412	31. 3194
15	18. 2451	22. 3071	24. 9958	27. 4884	30. 5780	32.8015
16	19. 3689	23. 5418	26. 2962	28.8453	31. 9999	34. 2671
17	20. 4887	24. 7690	27. 5871	30. 1910	33. 4087	35. 7184
18	21. 6049	25. 9894	28. 8693	31. 5264	34. 8052	37. 1564
19	22. 7178	27. 2036	30. 1435	32. 8523	36. 1908	38. 5821
20	23. 8277	28. 4120	31. 4104	34. 1696	37. 5663	39. 9969
21	24. 9348	29. 6151	32.6706	35. 4789	38. 9322	41.4009
22	26. 0393	30. 8133	33. 9245	36. 7807	40. 2894	42.7957
23	27. 1413	32. 0069	35. 1725	38. 0756	41. 6383	44. 1814
24	28. 2412	33. 1962	36. 4150	39. 3641	42. 9798	45. 5584
25	29. 3388	34. 3816	37. 6525	40.6465	44. 3140	46.9280
26	30. 4346	35. 5632	38. 8851	41. 9231	45. 6416	48. 2898
27	31. 5284	36. 7412	40. 1133	43. 1945	46. 9628	49.6450
28	32. 6205	37. 9159	41. 3372	44. 4608	48. 2782	50. 9936
29	33. 7109	39. 0875	42. 5569	45. 7223	49. 5878	52. 3355
30	34. 7997	40. 2560	43.7730	46. 9792	50.8922	53.6719
31	35. 8871	41. 4217	44. 9853	48. 2319	52. 1914	55.0025
32	36. 9730	42. 5847	46. 1942	49. 4804	53. 4857	56. 3280
33	38. 0575	43.7452	47. 3999	50. 7251	54. 7754	57.6483
34	39. 1408	44. 9032	48.6024	51. 9660	56. 0609	58.9637
35	40. 2228	46.0588	49.8018	53. 2033	57. 3420	60. 2746
36	41. 3036	47. 2122	50. 9985	54. 4373	58. 6192	61.5811
37	42. 3833	48. 3634	52. 1923	55. 6680	59. 8926	62.8832
38	43. 4619	49. 5126	53. 3835	56. 8955	61. 1620	64. 1812
39	44. 5395	50.6598	54. 5722	58. 1201	62. 4281	65. 4753
40	45. 6160	51.8050	55. 7585	59. 3417	63.6908	66. 7660
41	46. 6916	52. 9485	56. 9424	60. 5606	64. 9500	68.0526
42	47. 7662	54. 0902	58. 1240	61. 7767	66. 2063	69. 3360
43	48. 8400	55. 2302	59. 3035	62. 9903	67. 4593	70.6157
44	49. 9129	56. 3685	60. 4809	64. 2014	68. 7096	71.8923
45	50. 9849	57. 5053	61. 6562	65. 4101	69. 9569	73. 1660
	·					

附表 6 F 分布表

n_1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	8
1	5.83	7.50	8.20	8.58	8.82	8.98	9.10	9.19	9.26	9.32	9.41	9.49	9.58	9.63	9.67	9.71	9.76	9.80	9.85
2	2.57	3.00	3.15	3.23	3.28	3.31	3.34	3.35	3.37	3.38	3.39	3.41	3.43	3.43	3.44	3.45	3.46	3.47	3.48
3	2.02	2.28	2.36	2.39	2.41	2.42	2.43	2.44	2.44	2.44	2.45	2.46	2.46	2.46	2.47	2.47	2.47	2.47	2.47
4	1.81	2.00	2.05	2.06	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
5	1.69	1.85	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.87	1.87	1.87
6	1.62	1.76	1.78	1.79	1.79	1.78	1.78	1.78	1.77	1.77	1.77	1.76	1.76	1.75	1.75	1.75	1.74	1.74	1.74
7	1.57	1.70	1.72	1.72	1.71	1.71	1.70	1.70	1.69	1.69	1.68	1.68	1.67	1.67	1.66	1.66	1.65	1.65	1.65
8	1.54	1.66	1.67	1.66	1.66	1.65	1.64	1.64	1.63	1.63	1.62	1.62	1.61	1.60	1.60	1.59	1.59	1.58	1.58
9	1.51	1.62	1.63	1.63	1.62	1.61	1.60	1.60	1.59	1.59	1.58	1.57	1.56	1.56	1.55	1.54	1.54	1.53	1.53
10	1.49	1.60	1.60	1.59	1.59	1.58	1.57	1.56	1.56	1.55	1.54	1.53	1.52	1.52	1.51	1.51	1.50	1.49	1.48
11	1.47	1.58	1.58	1.57	1.56	1.55	1.54	1.53	1.53	1.52	1.51	1.50	1.49	1.49	1.48	1.47	1.47	1.46	1.45
12	1.46	1.56	1.56	1.55	1.54	1.53	1.52	1.51	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.42
13	1.45	1.55	1.55	1.53	1.52	1.51	1.50	1.49	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.42	1.41	1.40
14	1.44	1.53	1.53	1.52	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.41	1.41	1.40	1.39	1.38
15	1.43	1.52	1.52	1.51	1.49	1.48	1.47	1.46	1.46	1.45	1.44	1.43	1.41	1.41	1.40	1.39	1.38	1.37	1.36
16	1.42	1.51	1.51	1.50	1.48	1.47	1.46	1.45	1.44	1.44	1.43	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.34
17	1.42	1.51	1.50	1.49	1.47	1.46	1.45	1.44	1.43	1.43	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33
18	1.41	1.50	1.49	1.48	1.46	1.45	1.44	1.43	1.42	1.42	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33	1.32
19	1.41	1.49	1.49	1.47	1.46	1.44	1.43	1.42	1.41	1.41	1.40	1.38	1.37	1.36	1.35	1.34	1.33	1.32	1.30
20	1.40	1.49	1.48	1.47	1.45	1.44	1.43	1.42	1.41	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.29
21	1.40	1.48	1.48	1.46	1.44	1.43	1.42	1.41	1.40	1.39	1.38	1.37	1.35	1.34	1.33	1.32	1.31	1.30	1.28
22	1.40	1.48	1.47	1.45	1.44	1.42	1.41	1.40	1.39	1.39	1.37	1.36	1.34	1.33	1.32	1.31	1.30	1.29	1.28
23	1.39	1.47	1.47	1.45	1.43	1.42	1.41	1.40	1.39	1.38	1.37	1.35	1.34	1.33	1.32	1.31	1.30	1.28	1.27
24	1.39	1.47	1.46	1.44	1.43	1.41	1.40	1.39	1.38	1.38	1.36	1.35	1.33	1.32	1.31	1.30	1.29	1.28	1.26
25	1.39	1.47	1.46	1.44	1.42	1.41	1.40	1.39	1.38	1.37	1.36	1.34	1.33	1.32	1.31	1.29	1.28	1.27	1.25
26	1.38	1.46	1.45	1.44	1.42	1.41	1.39	1.38	1.37	1.37	1.35	1.34	1.32	1.31	1.30	1.29	1.28	1.26	1.25
27	1.38	1.46	1.45	1.43	1.42	1.40	1.39	1.38	1.37	1.36	1.35	1.33	1.32	1.31	1.30	1.28	1.27	1.26	1.24
28	1.38	1.46	1.45	1.43	1.41	1.40	1.39	1.38	1.37	1.36	1.34	1.33	1.31	1.30	1.29	1.28	1.27	1.25	1.24
29	1.38		1.45		1.41		1.38		1.36						1.29	1.27	1.26		1.23
30	1.38	1.45	1.44	1.42	1.41	1.39	1.38	1.37	1.36	1.35	1.34	1.32	1.30	1.29	1.28	1.27	1.26	1.24	1.23
35	1.37	1.44	1.43	1.41	1.40	1.38	1.37	1.36	1.35	1.34	1.32	1.31	1.29	1.28	1.27	1.25	1.24	1.22	1.20
40	1.36	1.44	1.42	1.40	1.39	1.37	1.36	1.35	1.34	1.33	1.31	1.30	1.28	1.26	1.25	1.24	1.22	1.21	1.19
50	1.35	1.43	1.41	1.39	1.37	1.36	1.34	1.33	1.32	1.31	1.30	1.28	1.26	1.25	1.23	1.22	1.20	1.19	1.16
60	1.35	1.42	1.41	1.38	1.37	1.35	1.33	1.32	1.31	1.30	1.29	1.27	1.25	1.24	1.22	1.21	1.19	1.17	1.15
80	1.34	1.41	1.40	1.38	1.36	1.34	1.32	1.31	1.30	1.29	1.27	1.26	1.23	1.22	1.21	1.19	1.17	1.15	1.12
120	1.34	1.40	1.39	1.37	1.35	1.33	1.31	1.30	1.29	1.28	1.26	1.24	1.22	1.21	1.19	1.18	1.16	1.13	1.10
∞	1.32	1.39	1.37	1.35	1.33	1.31	1.29	1.28	1.27	1.25	1.24	1.22	1.19	1.18	1.16	1.14	1.12	1.08	1.00

									u _	0.10									
n_1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	8
1	39.86	49.50	53.59	55.83	57.24	58.20	58.91	59.44	59.86	60.19	60.71	61.22	61.74	62.00	62.26	62.53	62.79	63.06	63.33
2	8.53	9.00	9.16	9.24	9.29	9.33	9.35	9.37	9.38	9.39	9.41	9.42	9.44	9.45	9.46	9.47	9.47	9.48	9.49
3	5.54	5.46	5.39	5.34	5.31	5.28	5.27	5.25	5.24	5.23	5.22	5.20	5.18	5.18	5.17	5.16	5.15	5.14	5.13
4	4.54	4.32	4.19	4.11	4.05	4.01	3.98	3.95	3.94	3.92	3.90	3.87	3.84	3.83	3.82	3.80	3.79	3.78	3.76
5	4.06	3.78	3.62	3.52	3.45	3.40	3.37	3.34	3.32	3.30	3.27	3.24	3.21	3.19	3.17	3.16	3.14	3.12	3.10
6	3.78	3.46	3.29	3.18	3.11	3.05	3.01	2.98	2.96	2.94	2.90	2.87	2.84	2.82	2.80	2.78	2.76	2.74	2.72
7	3.59	3.26	3.07	2.96	2.88	2.83	2.78	2.75	2.72	2.70	2.67	2.63	2.59	2.58	2.56	2.54	2.51	2.49	2.47
8	3.46	3.11	2.92	2.81	2.73	2.67	2.62	2.59	2.56	2.54	2.50	2.46	2.42	2.40	2.38	2.36	2.34	2.32	2.29
9	3.36	3.01	2.81	2.69	2.61	2.55	2.51	2.47	2.44	2.42	2.38	2.34	2.30	2.28	2.25	2.23	2.21	2.18	2.16
10	3.29	2.92	2.73	2.61	2.52	2.46	2.41	2.38	2.35	2.32	2.28	2.24	2.20	2.18	2.16	2.13	2.11	2.08	2.06
11	3.23	2.86	2.66	2.54	2.45	2.39	2.34	2.30	2.27	2.25	2.21	2.17	2.12	2.10	2.08	2.05	2.03	2.00	1.97
12	3.18	2.81	2.61	2.48	2.39	2.33	2.28	2.24	2.21	2.19	2.15	2.10	2.06	2.04	2.01	1.99	1.96	1.93	1.90
13	3.14	2.76	2.56	2.43	2.35	2.28	2.23	2.20	2.16	2.14	2.10	2.05	2.01	1.98	1.96	1.93	1.90	1.88	1.85
14	3.10	2.73	2.52	2.39	2.31	2.24	2.19	2.15	2.12	2.10	2.05	2.01	1.96	1.94	1.91	1.89	1.86	1.83	1.80
15	3.07	2.70	2.49	2.36	2.27	2.21	2.16	2.12	2.09	2.06	2.02	1.97	1.92	1.90	1.87	1.85	1.82	1.79	1.76
16	3.05	2.67	2.46	2.33	2.24	2.18	2.13	2.09	2.06	2.03	1.99	1.94	1.89	1.87	1.84	1.81	1.78	1.75	1.72
17	3.03	2.64	2.44	2.31	2.22	2.15	2.10	2.06	2.03	2.00	1.96	1.91	1.86	1.84	1.81	1.78	1.75	1.72	1.69
18	3.01	2.62	2.42	2.29	2.20	2.13	2.08	2.04	2.00	1.98	1.93	1.89	1.84	1.81	1.78	1.75	1.72	1.69	1.66
19	2.99	2.61	2.40	2.27	2.18	2.11	2.06	2.02	1.98	1.96	1.91	1.86	1.81	1.79	1.76	1.73	1.70	1.67	1.63
20	2.97	2.59	2.38	2.25	2.16	2.09	2.04	2.00	1.96	1.94	1.89	1.84	1.79	1.77	1.74	1.71	1.68	1.64	1.61
21	2.96	2.57	2.36	2.23	2.14	2.08	2.02	1.98	1.95	1.92	1.87	1.83	1.78	1.75	1.72	1.69	1.66	1.62	1.59
22	2.95	2.56	2.35	2.22	2.13	2.06	2.01	1.97	1.93	1.90	1.86	1.81	1.76	1.73	1.70	1.67	1.64	1.60	1.57
23	2.94	2.55	2.34	2.21	2.11	2.05	1.99	1.95	1.92	1.89	1.84	1.80	1.74	1.72	1.69	1.66	1.62	1.59	1.55
24	2.93	2.54	2.33	2.19	2.10	2.04	1.98	1.94	1.91	1.88	1.83	1.78	1.73	1.70	1.67	1.64	1.61	1.57	1.53
25	2.92	2.53	2.32	2.18	2.09	2.02	1.97	1.93	1.89	1.87	1.82	1.77	1.72	1.69	1.66	1.63	1.59	1.56	1.52
26	2.91	2.52	2.31	2.17	2.08	2.01	1.96	1.92	1.88	1.86	1.81	1.76	1.71	1.68	1.65	1.61	1.58	1.54	1.50
27	2.90	2.51	2.30	2.17	2.07	2.00	1.95	1.91	1.87	1.85	1.80	1.75	1.70	1.67	1.64	1.60	1.57	1.53	1.49
28	2.89	2.50	2.29	2.16			1.94	1.90	1.87	1.84	1.79	1.74	1.69	1.66	1.63	1.59	1.56	1.52	1.48
29	2.89	2.50	2.28	2.15	2.06	1.99	1.93	1.89	1.86	1.83	1.78	1.73	1.68	1.65	1.62	1.58	1.55	1.51	1.47
30	2.88	2.49	2.28			1.98													
35	2.85	2.46				1.95													1.41
40			2.23			1.93				1.76						1.51			
50						1.90				1.73			1.57					1.38	
60						1.87				1.71					1.48			1.35	1
80			2.15			1.85			1.71		1.63		1.51			1.40			1.24
120	2.75					1.82			1.68		1.60		1.48					1.26	1.19
∞	2.71	2.30	2.08	1.94	1.85	1.77	1.72	1.67	1.63	1.60	1.55	1.49	1.42	1.38	1.34	1.30	1.24	1.17	1.00

2 18.51 19.00 19.16 19.25 19.30 19.35 19.37 19.38 19.40 19.41 19.43 19.45 19.46 19.47 19.48 19.49 19.49 3 10.13 9.55 9.28 9.12 9.01 8.89 8.85 8.81 8.79 8.74 8.70 8.66 8.64 8.62 8.59 8.57 8.55 4 7.71 6.94 6.59 6.39 6.26 6.16 6.09 6.04 6.00 5.96 5.91 5.86 5.80 5.77 5.75 5.72 5.69 5.66 5.99 5.14 4.76 4.53 4.39 4.28 4.21 4.15 4.10 4.06 4.00 3.94 3.81 3.77 3.74 3.70 7 5.59 4.74 4.35 4.12 3.97 3.87 3.73 3.68 3.64 3.57 3.51 3.44 3.41 3.33 3.22 3.13 4.62 4.	0.05	u _									
2 18.51 19.00 19.16 19.25 19.30 19.33 19.35 19.37 19.38 19.40 19.41 19.43 19.45 19.46 19.47 19.48 19.49 3 10.13 9.55 9.28 9.12 9.01 8.89 8.85 8.81 8.79 8.74 8.70 8.66 8.64 8.62 8.57 8.55 4 7.71 6.94 6.59 6.26 6.16 6.09 6.04 6.00 5.91 5.86 5.80 5.77 5.72 5.69 5.66 5.99 5.14 4.76 4.53 4.39 4.28 4.21 4.15 4.10 4.06 4.00 3.87 3.84 3.81 3.77 3.74 3.70 5.59 5.14 4.76 4.53 4.28 4.21 4.15 4.15 4.15<	10 12 15 20 24 30 40 60 120 ∞	9	8	7	6	5	4	3	2	1	
3 10.13 9.55 9.28 9.12 9.01 8.94 8.89 8.85 8.81 8.79 8.74 8.70 8.66 8.64 8.62 8.59 8.57 5.55 4 7.71 6.94 6.59 6.39 6.26 6.16 6.09 6.04 6.00 5.96 5.91 5.86 5.80 5.77 5.75 5.72 5.69 5.66 5 6.61 5.79 5.41 5.19 5.05 4.95 4.88 4.82 4.77 4.74 4.68 4.62 4.56 4.53 4.40 4.40 6 5.99 5.14 4.76 4.53 4.39 4.28 4.21 4.15 4.10 4.06 4.00 3.94 3.81 3.77 3.74 3.70 7 5.59 4.74 4.35 4.12 3.97 3.87 3.79 3.73 3.68 3.64 3.57 3.11 3.44 3.41 3.31 3.20 3.81 3.44 3.41 3.83 3.24 3.11 3.00 3.23 3.18	241.88 243.90 245.95 248.02 249.05 250.10 251.14 252.20 253.25 254.31	240.54	238.88	236.77	233.99	230.16	224.58	215.71	199.50	161.45	1
4 7.71 6.94 6.59 6.39 6.26 6.16 6.09 6.04 6.00 5.96 5.91 5.86 5.80 5.77 5.75 5.72 5.69 5.66 5 6.61 5.79 5.41 5.19 5.05 4.95 4.88 4.82 4.77 4.74 4.68 4.62 4.56 4.53 4.46 4.43 4.40 6 5.99 5.14 4.76 4.53 4.39 4.28 4.21 4.15 4.10 4.06 4.00 3.94 3.87 3.84 3.81 3.77 3.74 3.70 7 5.59 4.74 4.35 4.12 3.97 3.87 3.79 3.73 3.68 3.62 3.51 3.44 3.41 3.38 3.34 3.30 3.27 8 5.32 4.46 4.07 3.84 3.69 3.58 3.50 3.44 3.37 3.22 3.18 3.14 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 10 4.96 4.10	19.40 19.41 19.43 19.45 19.45 19.46 19.47 19.48 19.49 19.50	19.38	19.37	19.35	19.33	19.30	19.25	19.16	19.00	18.51	2
5 6.61 5.79 5.41 5.19 5.05 4.95 4.88 4.82 4.77 4.74 4.68 4.62 4.56 4.53 4.50 4.46 4.43 4.40 6 5.99 5.14 4.76 4.53 4.39 4.28 4.21 4.15 4.10 4.06 4.00 3.94 3.87 3.84 3.81 3.77 3.74 3.70 7 5.59 4.74 4.35 4.12 3.97 3.87 3.79 3.73 3.68 3.64 3.57 3.51 3.44 3.41 3.38 3.34 3.30 3.27 8 5.32 4.46 4.07 3.84 3.69 3.58 3.50 3.44 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 10 4.96 4.10 3.71 3.48 3.33 3.22 3.14 3.07 3.02 2.98 2.91 2.85 2.77 2.74 2.6	8.79 8.74 8.70 8.66 8.64 8.62 8.59 8.57 8.55 8.53	8.81	8.85	8.89	8.94	9.01	9.12	9.28	9.55	10.13	3
6 5.99 5.14 4.76 4.53 4.39 4.28 4.21 4.15 4.10 4.06 4.00 3.94 3.87 3.84 3.81 3.77 3.74 3.70 7 5.59 4.74 4.35 4.12 3.97 3.87 3.79 3.73 3.68 3.64 3.57 3.51 3.44 3.41 3.38 3.34 3.30 3.27 8 5.32 4.46 4.07 3.84 3.69 3.58 3.50 3.44 3.39 3.35 3.22 3.15 3.12 3.08 3.04 3.01 2.97 9 5.12 4.26 3.86 3.63 3.48 3.37 3.29 3.23 3.14 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 10 4.96 4.10 3.71 3.48 3.33 3.22 3.14 3.07 3.02 2.98 2.91 2.85 2.77 2.74 2.70 2.65 2.69 2.65 2.61 2.57 2.53 2.49 2.45	5.96 5.91 5.86 5.80 5.77 5.75 5.72 5.69 5.66 5.63	6.00	6.04	6.09	6.16	6.26	6.39	6.59	6.94	7.71	4
7 5.59 4.74 4.35 4.12 3.97 3.87 3.79 3.73 3.68 3.64 3.57 3.51 3.44 3.41 3.38 3.34 3.30 3.27 8 5.32 4.46 4.07 3.84 3.69 3.58 3.50 3.44 3.39 3.28 3.22 3.15 3.12 3.08 3.04 3.01 2.97 9 5.12 4.26 3.86 3.63 3.48 3.37 3.29 3.23 3.18 3.14 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 10 4.96 4.10 3.71 3.48 3.33 3.22 3.14 3.07 3.02 2.98 2.91 2.85 2.77 2.74 2.70 2.66 2.62 2.58 11 4.84 3.98 3.59 3.36 3.20 3.09 3.01 2.95 2.90 2.85 2.79 2.72 2.65 2.61 2.57 2.53 2.49 2.42 12 4.75 3.81	4.74 4.68 4.62 4.56 4.53 4.50 4.46 4.43 4.40 4.36	4.77	4.82	4.88	4.95	5.05	5.19	5.41	5.79	6.61	5
8 5.32 4.46 4.07 3.84 3.69 3.58 3.50 3.44 3.39 3.35 3.28 3.22 3.15 3.12 3.08 3.04 3.01 2.97 9 5.12 4.26 3.86 3.63 3.48 3.37 3.29 3.23 3.18 3.14 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 10 4.96 4.10 3.71 3.48 3.33 3.22 3.14 3.07 3.02 2.98 2.91 2.85 2.77 2.74 2.70 2.66 2.62 2.58 11 4.84 3.98 3.59 3.36 3.20 3.09 3.01 2.95 2.90 2.85 2.79 2.72 2.65 2.61 2.57 2.53 2.49 2.45 12 4.75 3.89 3.49 3.26 3.11 3.00 2.91 2.85 2.80 2.75 2.69 2.62 2.54 2.51 2.47 2.43 2.33 2.24 2.33 2.32 2.32	4.06 4.00 3.94 3.87 3.84 3.81 3.77 3.74 3.70 3.67	4.10	4.15	4.21	4.28	4.39	4.53	4.76	5.14	5.99	6
9 5.12 4.26 3.86 3.63 3.48 3.37 3.29 3.23 3.18 3.14 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 10 4.96 4.10 3.71 3.48 3.33 3.22 3.14 3.07 3.02 2.98 2.91 2.85 2.77 2.74 2.70 2.66 2.62 2.58 11 4.84 3.98 3.59 3.36 3.20 3.09 3.01 2.95 2.90 2.85 2.79 2.72 2.65 2.61 2.57 2.53 2.49 2.45 12 4.75 3.89 3.49 3.26 3.11 3.00 2.91 2.85 2.80 2.75 2.69 2.62 2.54 2.51 2.47 2.43 2.38 2.34 13 4.67 3.81 3.41 3.18 3.03 2.92 2.83 2.77 2.71 2.67 2.60 2.53 2.46 2.42 2.38 2.31 2.27 2.22 2.18 15	3.64 3.57 3.51 3.44 3.41 3.38 3.34 3.30 3.27 3.23	3.68	3.73	3.79	3.87	3.97	4.12	4.35	4.74	5.59	7
10 4.96 4.10 3.71 3.48 3.33 3.22 3.14 3.07 3.02 2.98 2.91 2.85 2.77 2.74 2.70 2.66 2.62 2.58 11 4.84 3.98 3.59 3.36 3.20 3.09 3.01 2.95 2.90 2.85 2.79 2.72 2.65 2.61 2.57 2.53 2.49 2.45 12 4.75 3.89 3.49 3.26 3.11 3.00 2.91 2.85 2.80 2.75 2.69 2.62 2.54 2.51 2.47 2.43 2.38 2.34 13 4.67 3.81 3.41 3.18 3.03 2.92 2.83 2.77 2.71 2.67 2.60 2.53 2.46 2.42 2.38 2.34 2.30 2.25 14 4.60 3.74 3.34 3.11 2.96 2.85 2.76 2.70 2.65 2.60 2.53 2.46 2.39 2.35 2.31 2.27 2.22 2.18 15 4.54	3.35 3.28 3.22 3.15 3.12 3.08 3.04 3.01 2.97 2.93	3.39	3.44	3.50	3.58	3.69	3.84	4.07	4.46	5.32	8
11 4.84 3.98 3.59 3.36 3.20 3.09 3.01 2.95 2.90 2.85 2.79 2.72 2.65 2.61 2.57 2.53 2.49 2.45 12 4.75 3.89 3.49 3.26 3.11 3.00 2.91 2.85 2.80 2.75 2.69 2.62 2.54 2.51 2.47 2.43 2.38 2.34 13 4.67 3.81 3.41 3.18 3.03 2.92 2.83 2.77 2.71 2.67 2.60 2.53 2.46 2.42 2.38 2.34 2.30 2.25 14 4.60 3.74 3.34 3.11 2.96 2.85 2.76 2.70 2.65 2.60 2.53 2.46 2.39 2.35 2.31 2.27 2.22 2.18 15 4.54 3.68 3.29 3.06 2.90 2.79 2.71 2.64 2.59 2.54 2.48 2.40 2.33 2.29 2.25 2.20 2.16 2.11 16 4.49	3.14 3.07 3.01 2.94 2.90 2.86 2.83 2.79 2.75 2.71	3.18	3.23	3.29	3.37	3.48	3.63	3.86	4.26	5.12	9
12 4.75 3.89 3.49 3.26 3.11 3.00 2.91 2.85 2.80 2.75 2.69 2.62 2.54 2.51 2.47 2.43 2.38 2.34 13 4.67 3.81 3.41 3.18 3.03 2.92 2.83 2.77 2.71 2.67 2.60 2.53 2.46 2.42 2.38 2.34 2.30 2.25 14 4.60 3.74 3.34 3.11 2.96 2.85 2.76 2.70 2.65 2.60 2.53 2.46 2.42 2.38 2.34 2.30 2.25 14 4.60 3.74 3.34 3.11 2.96 2.85 2.76 2.70 2.65 2.60 2.53 2.46 2.39 2.35 2.31 2.27 2.22 2.18 15 4.54 3.68 3.29 3.06 2.90 2.79 2.71 2.64 2.59 2.54 2.48 2.40 2.33 2.29 2.25 2.20 2.11 2.06 17 4.45 3.59	2.98 2.91 2.85 2.77 2.74 2.70 2.66 2.62 2.58 2.54	3.02	3.07	3.14	3.22	3.33	3.48	3.71	4.10	4.96	10
13 4.67 3.81 3.41 3.18 3.03 2.92 2.83 2.77 2.71 2.67 2.60 2.53 2.46 2.42 2.38 2.34 2.30 2.25 14 4.60 3.74 3.34 3.11 2.96 2.85 2.76 2.70 2.65 2.60 2.53 2.46 2.39 2.35 2.31 2.27 2.22 2.18 15 4.54 3.68 3.29 3.06 2.90 2.79 2.71 2.64 2.59 2.54 2.48 2.40 2.33 2.29 2.25 2.20 2.16 2.11 16 4.49 3.63 3.24 3.01 2.85 2.74 2.66 2.59 2.54 2.49 2.42 2.35 2.28 2.24 2.19 2.15 2.11 2.06 17 4.45 3.59 3.20 2.96 2.81 2.70 2.61 2.55 2.49 2.45 2.38 2.31 2.23 2.19 2.15 2.10 2.06 2.01 18 4.41	2.85 2.79 2.72 2.65 2.61 2.57 2.53 2.49 2.45 2.40	2.90	2.95	3.01	3.09	3.20	3.36	3.59	3.98	4.84	11
14 4.60 3.74 3.34 3.11 2.96 2.85 2.76 2.70 2.65 2.60 2.53 2.46 2.39 2.35 2.31 2.27 2.22 2.18 15 4.54 3.68 3.29 3.06 2.90 2.79 2.71 2.64 2.59 2.54 2.48 2.40 2.33 2.29 2.25 2.20 2.16 2.11 16 4.49 3.63 3.24 3.01 2.85 2.74 2.66 2.59 2.54 2.49 2.42 2.35 2.28 2.24 2.19 2.15 2.11 2.06 17 4.45 3.59 3.20 2.96 2.81 2.70 2.61 2.55 2.49 2.45 2.38 2.31 2.23 2.19 2.15 2.10 2.06 2.01 18 4.41 3.55 3.16 2.93 2.77 2.66 2.58 2.51 2.46 2.41 2.34 2.27 2.19 2.15 2.11 2.06 2.02 1.97 19 4.38	2.75 2.69 2.62 2.54 2.51 2.47 2.43 2.38 2.34 2.30	2.80	2.85	2.91	3.00	3.11	3.26	3.49	3.89	4.75	12
15 4.54 3.68 3.29 3.06 2.90 2.79 2.71 2.64 2.59 2.54 2.48 2.40 2.33 2.29 2.25 2.20 2.16 2.11 16 4.49 3.63 3.24 3.01 2.85 2.74 2.66 2.59 2.54 2.49 2.42 2.35 2.28 2.24 2.19 2.15 2.11 2.06 17 4.45 3.59 3.20 2.96 2.81 2.70 2.61 2.55 2.49 2.45 2.38 2.31 2.23 2.19 2.15 2.10 2.06 2.01 18 4.41 3.55 3.16 2.93 2.77 2.66 2.58 2.51 2.46 2.41 2.34 2.27 2.19 2.15 2.11 2.06 2.02 1.97 19 4.38 3.52 3.13 2.90 2.74 2.63 2.54 2.48 2.42 2.38 2.31 2.23 2.16 2.11 2.07 2.03 1.98 1.93 20 4.35	2.67 2.60 2.53 2.46 2.42 2.38 2.34 2.30 2.25 2.21	2.71	2.77	2.83	2.92	3.03	3.18	3.41	3.81	4.67	13
16 4.49 3.63 3.24 3.01 2.85 2.74 2.66 2.59 2.54 2.49 2.42 2.35 2.28 2.24 2.19 2.15 2.11 2.06 17 4.45 3.59 3.20 2.96 2.81 2.70 2.61 2.55 2.49 2.45 2.38 2.31 2.23 2.19 2.15 2.10 2.06 2.01 18 4.41 3.55 3.16 2.93 2.77 2.66 2.58 2.51 2.46 2.41 2.34 2.27 2.19 2.15 2.11 2.06 2.02 1.97 19 4.38 3.52 3.13 2.90 2.74 2.63 2.54 2.48 2.42 2.38 2.31 2.23 2.16 2.11 2.06 2.02 1.97 19 4.38 3.59 3.10 2.87 2.71 2.60 2.51 2.48 2.42 2.38 2.31 2.23 2.16 2.11 2.07 2.03 1.98 1.93 20 4.35 3.49	2.60 2.53 2.46 2.39 2.35 2.31 2.27 2.22 2.18 2.13	2.65	2.70	2.76	2.85	2.96	3.11	3.34	3.74	4.60	14
17 4.45 3.59 3.20 2.96 2.81 2.70 2.61 2.55 2.49 2.45 2.38 2.31 2.23 2.19 2.15 2.10 2.06 2.01 18 4.41 3.55 3.16 2.93 2.77 2.66 2.58 2.51 2.46 2.41 2.34 2.27 2.19 2.15 2.11 2.06 2.02 1.97 19 4.38 3.52 3.13 2.90 2.74 2.63 2.54 2.48 2.42 2.38 2.31 2.23 2.16 2.11 2.07 2.03 1.98 1.93 20 4.35 3.49 3.10 2.87 2.71 2.60 2.51 2.45 2.39 2.35 2.28 2.20 2.12 2.08 2.04 1.99 1.95 1.90 21 4.32 3.47 3.07 2.84 2.68 2.57 2.49 2.42 2.37 2.32 2.25 2.18 2.10 2.05 2.01 1.96 1.92 1.87	2.54 2.48 2.40 2.33 2.29 2.25 2.20 2.16 2.11 2.07	2.59	2.64	2.71	2.79	2.90	3.06	3.29	3.68	4.54	15
18 4.41 3.55 3.16 2.93 2.77 2.66 2.58 2.51 2.46 2.41 2.34 2.27 2.19 2.15 2.11 2.06 2.02 1.97 19 4.38 3.52 3.13 2.90 2.74 2.63 2.54 2.48 2.42 2.38 2.31 2.23 2.16 2.11 2.07 2.03 1.98 1.93 20 4.35 3.49 3.10 2.87 2.71 2.60 2.51 2.45 2.39 2.35 2.28 2.20 2.12 2.08 2.04 1.99 1.95 1.90 21 4.32 3.47 3.07 2.84 2.68 2.57 2.49 2.42 2.37 2.32 2.25 2.18 2.10 2.05 2.01 1.96 1.92 1.87	2.49 2.42 2.35 2.28 2.24 2.19 2.15 2.11 2.06 2.01	2.54	2.59	2.66	2.74	2.85	3.01	3.24	3.63	4.49	16
19 4.38 3.52 3.13 2.90 2.74 2.63 2.54 2.48 2.42 2.38 2.31 2.23 2.16 2.11 2.07 2.03 1.98 1.93 20 4.35 3.49 3.10 2.87 2.71 2.60 2.51 2.45 2.39 2.35 2.28 2.20 2.12 2.08 2.04 1.99 1.95 1.90 21 4.32 3.47 3.07 2.84 2.68 2.57 2.49 2.42 2.37 2.32 2.25 2.18 2.10 2.05 2.01 1.96 1.92 1.87	2.45 2.38 2.31 2.23 2.19 2.15 2.10 2.06 2.01 1.96	2.49	2.55	2.61	2.70	2.81	2.96	3.20	3.59	4.45	17
20 4.35 3.49 3.10 2.87 2.71 2.60 2.51 2.45 2.39 2.35 2.28 2.20 2.12 2.08 2.04 1.99 1.95 1.90 21 4.32 3.47 3.07 2.84 2.68 2.57 2.49 2.42 2.37 2.32 2.25 2.18 2.10 2.05 2.01 1.96 1.92 1.87	2.41 2.34 2.27 2.19 2.15 2.11 2.06 2.02 1.97 1.92	2.46	2.51	2.58	2.66	2.77	2.93	3.16	3.55	4.41	18
21 4.32 3.47 3.07 2.84 2.68 2.57 2.49 2.42 2.37 2.32 2.25 2.18 2.10 2.05 2.01 1.96 1.92 1.87	2.38 2.31 2.23 2.16 2.11 2.07 2.03 1.98 1.93 1.88	2.42	2.48	2.54	2.63	2.74	2.90	3.13	3.52	4.38	19
	2.35 2.28 2.20 2.12 2.08 2.04 1.99 1.95 1.90 1.84	2.39	2.45	2.51	2.60	2.71	2.87	3.10	3.49	4.35	20
22 4.30 3.44 3.05 2.82 2.66 2.55 2.46 2.40 2.34 2.30 2.23 2.15 2.07 2.03 1.98 1.94 1.89 1.84	2.32 2.25 2.18 2.10 2.05 2.01 1.96 1.92 1.87 1.81	2.37	2.42	2.49	2.57	2.68	2.84	3.07	3.47	4.32	21
	2.30 2.23 2.15 2.07 2.03 1.98 1.94 1.89 1.84 1.78	2.34	2.40	2.46	2.55	2.66	2.82	3.05	3.44	4.30	22
23 4.28 3.42 3.03 2.80 2.64 2.53 2.44 2.37 2.32 2.27 2.20 2.13 2.05 2.01 1.96 1.91 1.86 1.81	2.27 2.20 2.13 2.05 2.01 1.96 1.91 1.86 1.81 1.76	2.32	2.37	2.44	2.53	2.64	2.80	3.03	3.42	4.28	23
24 4.26 3.40 3.01 2.78 2.62 2.51 2.42 2.36 2.30 2.25 2.18 2.11 2.03 1.98 1.94 1.89 1.84 1.79	2.25 2.18 2.11 2.03 1.98 1.94 1.89 1.84 1.79 1.73	2.30	2.36	2.42	2.51	2.62	2.78	3.01	3.40	4.26	24
25 4.24 3.39 2.99 2.76 2.60 2.49 2.40 2.34 2.28 2.24 2.16 2.09 2.01 1.96 1.92 1.87 1.82 1.77	2.24 2.16 2.09 2.01 1.96 1.92 1.87 1.82 1.77 1.71	2.28	2.34	2.40	2.49	2.60	2.76	2.99	3.39	4.24	25
26 4.23 3.37 2.98 2.74 2.59 2.47 2.39 2.32 2.27 2.22 2.15 2.07 1.99 1.95 1.90 1.85 1.80 1.75	2.22 2.15 2.07 1.99 1.95 1.90 1.85 1.80 1.75 1.69	2.27	2.32	2.39	2.47	2.59	2.74	2.98	3.37	4.23	26
27 4.21 3.35 2.96 2.73 2.57 2.46 2.37 2.31 2.25 2.20 2.13 2.06 1.97 1.93 1.88 1.84 1.79 1.73	2.20 2.13 2.06 1.97 1.93 1.88 1.84 1.79 1.73 1.67	2.25	2.31	2.37	2.46	2.57	2.73	2.96	3.35	4.21	27
	2.19 2.12 2.04 1.96 1.91 1.87 1.82 1.77 1.71 1.65	2.24	2.29			2.56	2.71	2.95	3.34	4.20	28
											29
30 4.17 3.32 2.92 2.69 2.53 2.42 2.33 2.27 2.21 2.16 2.09 2.01 1.93 1.89 1.84 1.79 1.74 1.68	2.16 2.09 2.01 1.93 1.89 1.84 1.79 1.74 1.68 1.62	2.21	2.27	2.33	2.42	2.53	2.69	2.92	3.32	4.17	30
					2.37	2.49	2.64	2.87	3.27	4.12	35
40 4.08 3.23 2.84 2.61 2.45 2.34 2.25 2.18 2.12 2.08 2.00 1.92 1.84 1.79 1.74 1.69 1.64 1.58	2.08 2.00 1.92 1.84 1.79 1.74 1.69 1.64 1.58 1.51	2.12	2.18	2.25	2.34	2.45	2.61	2.84	3.23	4.08	40
				2.20	2.29	2.40	2.56	2.79	3.18	4.03	50
				2.17	2.25	2.37	2.53	2.76	3.15	4.00	60
80 3.96 3.11 2.72 2.49 2.33 2.21 2.13 2.06 2.00 1.95 1.88 1.79 1.70 1.65 1.60 1.54 1.48 1.41	1.95 1.88 1.79 1.70 1.65 1.60 1.54 1.48 1.41 1.32	2.00	2.06	2.13	2.21	2.33	2.49	2.72	3.11	3.96	80
					2.18					3.92	120
$ \hspace{0.2cm} \infty \hspace{0.2cm} \mid 3.84 \hspace{0.2cm} \mid 3.00 \hspace{0.2cm} \mid 2.60 \hspace{0.2cm} \mid 2.37 \hspace{0.2cm} \mid 2.21 \hspace{0.2cm} \mid 2.10 \hspace{0.2cm} \mid 2.01 \hspace{0.2cm} \mid 1.94 \hspace{0.2cm} \mid 1.88 \hspace{0.2cm} \mid 1.83 \hspace{0.2cm} \mid 1.75 \hspace{0.2cm} \mid 1.67 \hspace{0.2cm} \mid 1.57 \hspace{0.2cm} \mid 1.52 \hspace{0.2cm} \mid 1.46 \hspace{0.2cm} \mid 1.39 \hspace{0.2cm} \mid 1.32 \hspace{0.2cm} \mid 1.22 $	1.83 1.75 1.67 1.57 1.52 1.46 1.39 1.32 1.22 1.00	1.88	1.94	2.01	2.10	2.21	2.37	2.60	3.00	3.84	∞

									α _(J.UZS									
n_1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
1	647.79	799.48	864.15	899.60	921.83	937.11	948.20	956.64	963.28	968.63	976.72	984.87	993.08	997.27	1001.4	1005.6	1009.8	1014.0	1018.3
2	38.51	39.00	39.17	39.25	39.30	39.33	39.36	39.37	39.39	39.40	39.41	39.43	39.45	39.46	39.46	39.47	39.48	39.49	39.50
3	17.44	16.04	15.44	15.10	14.88	14.73	14.62	14.54	14.47	14.42	14.34	14.25	14.17	14.12	14.08	14.04	13.99	13.95	13.90
4	12.22	10.65	9.98	9.60	9.36	9.20	9.07	8.98	8.90	8.84	8.75	8.66	8.56	8.51	8.46	8.41	8.36	8.31	8.26
5	10.01	8.43	7.76	7.39	7.15	6.98	6.85	6.76	6.68	6.62	6.52	6.43	6.33	6.28	6.23	6.18	6.12	6.07	6.02
6	8.81	7.26	6.60	6.23	5.99	5.82	5.70	5.60	5.52	5.46	5.37	5.27	5.17	5.12	5.07	5.01	4.96	4.90	4.85
7	8.07	6.54	5.89	5.52	5.29	5.12	4.99	4.90	4.82	4.76	4.67	4.57	4.47	4.41	4.36	4.31	4.25	4.20	4.14
8	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.36	4.30	4.20	4.10	4.00	3.95	3.89	3.84	3.78	3.73	3.67
9	7.21	5.71	5.08	4.72	4.48	4.32	4.20	4.10	4.03	3.96	3.87	3.77	3.67	3.61	3.56	3.51	3.45	3.39	3.33
10	6.94	5.46	4.83	4.47	4.24	4.07	3.95	3.85	3.78	3.72	3.62	3.52	3.42	3.37	3.31	3.26	3.20	3.14	3.08
11	6.72	5.26	4.63	4.28	4.04	3.88	3.76	3.66	3.59	3.53	3.43	3.33	3.23	3.17	3.12	3.06	3.00	2.94	2.88
12	6.55	5.10	4.47	4.12	3.89	3.73	3.61	3.51	3.44	3.37	3.28	3.18	3.07	3.02	2.96	2.91	2.85	2.79	2.72
13	6.41	4.97	4.35	4.00	3.77	3.60	3.48	3.39	3.31	3.25	3.15	3.05	2.95	2.89	2.84	2.78	2.72	2.66	2.60
14	6.30	4.86	4.24	3.89	3.66	3.50	3.38	3.29	3.21	3.15	3.05	2.95	2.84	2.79	2.73	2.67	2.61	2.55	2.49
15	6.20	4.77	4.15	3.80	3.58	3.41	3.29	3.20	3.12	3.06	2.96	2.86	2.76	2.70	2.64	2.59	2.52	2.46	2.40
16	6.12	4.69	4.08	3.73	3.50	3.34	3.22	3.12	3.05	2.99	2.89	2.79	2.68	2.63	2.57	2.51	2.45	2.38	2.32
17	6.04	4.62	4.01	3.66	3.44	3.28	3.16	3.06	2.98	2.92	2.82	2.72	2.62	2.56	2.50	2.44	2.38	2.32	2.25
18	5.98	4.56	3.95	3.61	3.38	3.22	3.10	3.01	2.93	2.87	2.77	2.67	2.56	2.50	2.44	2.38	2.32	2.26	2.19
19	5.92	4.51	3.90	3.56	3.33	3.17	3.05	2.96	2.88	2.82	2.72	2.62	2.51	2.45	2.39	2.33	2.27	2.20	2.13
20	5.87	4.46	3.86	3.51	3.29	3.13	3.01	2.91	2.84	2.77	2.68	2.57	2.46	2.41	2.35	2.29	2.22	2.16	2.09
21	5.83	4.42	3.82	3.48	3.25	3.09	2.97	2.87	2.80	2.73	2.64	2.53	2.42	2.37	2.31	2.25	2.18	2.11	2.04
22	5.79	4.38	3.78	3.44	3.22	3.05	2.93	2.84	2.76	2.70	2.60	2.50	2.39	2.33	2.27	2.21	2.14	2.08	2.00
23	5.75	4.35	3.75	3.41	3.18	3.02	2.90	2.81	2.73	2.67	2.57	2.47	2.36	2.30	2.24	2.18	2.11	2.04	1.97
24	5.72	4.32	3.72	3.38	3.15	2.99	2.87	2.78	2.70	2.64	2.54	2.44	2.33	2.27	2.21	2.15	2.08	2.01	1.94
25	5.69	4.29	3.69	3.35	3.13	2.97	2.85	2.75	2.68	2.61	2.51	2.41	2.30	2.24	2.18	2.12	2.05	1.98	1.91
26	5.66	4.27	3.67	3.33	3.10	2.94	2.82	2.73	2.65	2.59	2.49	2.39	2.28	2.22	2.16	2.09	2.03	1.95	1.88
27	5.63	4.24	3.65	3.31	3.08	2.92	2.80	2.71	2.63	2.57	2.47	2.36	2.25	2.19	2.13	2.07	2.00	1.93	1.85
28	5.61	4.22			3.06				2.61				2.23		2.11		1.98	1.91	1.83
	5.59				3.04														1.81
					3.03														
					2.96													1.79	1.70
					2.90											1.88		1.72	1.64
					2.83											1.80			1.55
					2.79											1.74			1.48
					2.73				2.28							1.68			1.40
		3.80			2.67				2.22							1.61			1.31
	5.02	3.69	3.12	2.79	2.57	2.41	2.29	2.19	2.11	2.05	1.94	1.83	1.71	1.64	1.57	1.48	1.39	1.27	1.00

									α =(J.U1									
n_1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	8
1	4052.2	4999.3	5403.5	5624.3	5764.0	5859.0	5928.3	5981.0	6022.4	6055.9	6106.7	6157.0	6208.7	6234.3	6260.4	6286.4	6313.0	6339.5	6365.6
2	98.50	99.00	99.16	99.25	99.30	99.33	99.36	99.38	99.39	99.40	99.42	99.43	99.45	99.46	99.47	99.48	99.48	99.49	99.50
3	34.12	30.82	29.46	28.71	28.24	27.91	27.67	27.49	27.34	27.23	27.05	26.87	26.69	26.60	26.50	26.41	26.32	26.22	26.13
4	21.20	18.00	16.69	15.98	15.52	15.21	14.98	14.80	14.66	14.55	14.37	14.20	14.02	13.93	13.84	13.75	13.65	13.56	13.46
5	16.26	13.27	12.06	11.39	10.97	10.67	10.46	10.29	10.16	10.05	9.89	9.72	9.55	9.47	9.38	9.29	9.20	9.11	9.02
6	13.75	10.92	9.78	9.15	8.75	8.47	8.26	8.10	7.98	7.87	7.72	7.56	7.40	7.31	7.23	7.14	7.06	6.97	6.88
7	12.25	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72	6.62	6.47	6.31	6.16	6.07	5.99	5.91	5.82	5.74	5.65
8	11.26	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.91	5.81	5.67	5.52	5.36	5.28	5.20	5.12	5.03	4.95	4.86
9	10.56	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35	5.26	5.11	4.96	4.81	4.73	4.65	4.57	4.48	4.40	4.31
10	10.04	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.94	4.85	4.71	4.56	4.41	4.33	4.25	4.17	4.08	4.00	3.91
11	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63	4.54	4.40	4.25	4.10	4.02	3.94	3.86	3.78	3.69	3.60
12	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.39	4.30	4.16	4.01	3.86	3.78	3.70	3.62	3.54	3.45	3.36
13	9.07	6.70	5.74	5.21	4.86	4.62	4.44	4.30	4.19	4.10	3.96	3.82	3.66	3.59	3.51	3.43	3.34	3.25	3.17
14	8.86	6.51	5.56	5.04	4.69	4.46	4.28	4.14	4.03	3.94	3.80	3.66	3.51	3.43	3.35	3.27	3.18	3.09	3.00
15	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89	3.80	3.67	3.52	3.37	3.29	3.21	3.13	3.05	2.96	2.87
16	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78	3.69	3.55	3.41	3.26	3.18	3.10	3.02	2.93	2.84	2.75
17	8.40	6.11	5.19	4.67	4.34	4.10	3.93	3.79	3.68	3.59	3.46	3.31	3.16	3.08	3.00	2.92	2.83	2.75	2.65
18	8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.60	3.51	3.37	3.23	3.08	3.00	2.92	2.84	2.75	2.66	2.57
19	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52	3.43	3.30	3.15	3.00	2.92	2.84	2.76	2.67	2.58	2.49
20	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46	3.37	3.23	3.09	2.94	2.86	2.78	2.69	2.61	2.52	2.42
21	8.02	5.78	4.87	4.37	4.04	3.81	3.64	3.51	3.40	3.31	3.17	3.03	2.88	2.80	2.72	2.64	2.55	2.46	2.36
22	7.95	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.35	3.26	3.12	2.98	2.83	2.75	2.67	2.58	2.50	2.40	2.31
23	7.88	5.66	4.76	4.26	3.94	3.71	3.54	3.41	3.30	3.21	3.07		2.78	2.70		2.54	2.45	2.35	2.26
24	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26	3.17	3.03		2.74	2.66	2.58	2.49	2.40	2.31	2.21
25	7.77	5.57			3.85		3.46	3.32		3.13	2.99		2.70	2.62		2.45	2.36		2.17
26	7.72	5.53			3.82		3.42	3.29		3.09	2.96		2.66			2.42			2.13
27	7.68	5.49	4.60		3.78		3.39	3.26		3.06	2.93		2.63	2.55		2.38			2.10
28	7.64	5.45		4.07	3.75	3.53		3.23		3.03	2.90		2.60	2.52		2.35	2.26		2.06
29	7.60	5.42					3.33			3.00			2.57	2.49		2.33			2.03
30					3.70														
	7.42				3.59													2.00	
40	7.31				3.51		3.12			2.80								1.92	
50	7.17				3.41		3.02			2.70						2.01		1.80	
60	7.08				3.34					2.63		2.35						1.73	
80	6.96				3.26					2.55								1.63	
120	6.85	4.79			3.17		2.79			2.47		2.19						1.53	
	6.63	4.61	3./8	3.32	3.02	2.80	2.64	2.51	2.41	2.52	2.18	2.04	1.88	1./9	1.70	1.59	1.4/	1.32	1.00

									$\alpha = 0$.003									
n_1 n_2	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	8
1	16212	19997	21614	22501	23056	23440	23715	23924	24091	24222	24427	24632	24837	24937	25041	25146	25254	25358	25466
2	198.5	199.0	199.2	199.2	199.3	199.3	199.4	199.4	199.4	199.4	199.4	199.4	199.4	199.4	199.5	199.5	199.5	199.5	199.5
3	55.55	49.80	47.47	46.20	45.39	44.84	44.43	44.13	43.88	43.68	43.39	43.08	42.78	42.62	42.47	42.31	42.15	41.99	41.83
4	31.33	26.28	24.26	23.15	22.46	21.98	21.62	21.35	21.14	20.97	20.70	20.44	20.17	20.03	19.89	19.75	19.61	19.47	19.32
5	22.78	18.31	16.53	15.56	14.94	14.51	14.20	13.96	13.77	13.62	13.38	13.15	12.90	12.78	12.66	12.53	12.40	12.27	12.14
6	18.63	14.54	12.92	12.03	11.46	11.07	10.79	10.57	10.39	10.25	10.03	9.81	9.59	9.47	9.36	9.24	9.12	9.00	8.88
7	16.24	12.40	10.88	10.05	9.52	9.16	8.89	8.68	8.51	8.38	8.18	7.97	7.75	7.64	7.53	7.42	7.31	7.19	7.08
8	14.69	11.04	9.60	8.81	8.30	7.95	7.69	7.50	7.34	7.21	7.01	6.81	6.61	6.50	6.40	6.29	6.18	6.06	5.95
9	13.61	10.11	8.72	7.96	7.47	7.13	6.88	6.69	6.54	6.42	6.23	6.03	5.83	5.73	5.62	5.52	5.41	5.30	5.19
10	12.83	9.43	8.08	7.34	6.87	6.54	6.30	6.12	5.97	5.85	5.66	5.47	5.27	5.17	5.07	4.97	4.86	4.75	4.64
11	12.23	8.91	7.60	6.88	6.42	6.10	5.86	5.68	5.54	5.42	5.24	5.05	4.86	4.76	4.65	4.55	4.45	4.34	4.23
12	11.75	8.51	7.23	6.52	6.07	5.76	5.52	5.35	5.20	5.09	4.91	4.72	4.53	4.43	4.33	4.23	4.12	4.01	3.90
13	11.37	8.19	6.93	6.23	5.79	5.48	5.25	5.08	4.94	4.82	4.64	4.46	4.27	4.17	4.07	3.97	3.87	3.76	3.65
	11.06	7.92	6.68	6.00	5.56	5.26	5.03	4.86	4.72	4.60	4.43	4.25	4.06	3.96	3.86	3.76	3.66	3.55	3.44
15	10.80	7.70	6.48	5.80	5.37	5.07	4.85	4.67	4.54	4.42	4.25	4.07	3.88	3.79	3.69	3.59	3.48	3.37	3.26
16	10.58	7.51	6.30	5.64	5.21	4.91	4.69	4.52	4.38	4.27	4.10	3.92	3.73	3.64	3.54	3.44	3.33	3.22	3.11
17	10.38	7.35	6.16	5.50	5.07	4.78	4.56	4.39	4.25	4.14	3.97	3.79	3.61	3.51	3.41	3.31	3.21	3.10	2.98
18	10.22	7.21	6.03	5.37	4.96	4.66	4.44	4.28	4.14	4.03	3.86	3.68	3.50	3.40	3.30	3.20	3.10	2.99	2.87
19		7.09	5.92	5.27	4.85	4.56	4.34	4.18	4.04	3.93	3.76	3.59	3.40	3.31	3.21	3.11	3.00	2.89	2.78
20	9.94	6.99	5.82	5.17	4.76	4.47	4.26	4.09	3.96	3.85	3.68	3.50		3.22	3.12	3.02	2.92	2.81	2.69
21	9.83	6.89	5.73	5.09	4.68	4.39	4.18	4.01	3.88	3.77	3.60	3.43	3.24	3.15	3.05	2.95	2.84	2.73	2.61
22	9.73	6.81	5.65	5.02	4.61	4.32	4.11	3.94	3.81	3.70	3.54	3.36		3.08	2.98	2.88	2.77	2.66	2.55
23	9.63	6.73	5.58	4.95	4.54	4.26	4.05	3.88	3.75	3.64	3.47	3.30		3.02	2.92	2.82	2.71	2.60	2.48
24	9.55	6.66	5.52	4.89	4.49	4.20	3.99	3.83	3.69	3.59	3.42	3.25	3.06	2.97	2.87	2.77	2.66	2.55	2.43
25	9.48	6.60	5.46	4.84	4.43	4.15	3.94	3.78	3.64	3.54	3.37	3.20	3.01	2.92	2.82	2.72	2.61	2.50	2.38
26 27	9.41	6.54	5.41	4.79	4.38	4.10	3.89	3.73	3.60	3.49	3.33	3.15	2.97	2.87	2.77	2.67	2.56	2.45	2.33
28	9.34 9.28	6.49 6.44	5.36	4.74 4.70	4.34	4.06 4.02	3.85 3.81	3.69	3.56 3.52	3.45 3.41	3.28 3.25	3.11	2.93 2.89	2.83 2.79	2.73	2.63	2.52 2.48	2.41	2.29
20 29	9.23	6.40	5.28	4.66	4.26	3.98	3.77	3.61	3.48	3.41	3.23	3.07		2.76	2.66	2.59	2.45	2.37	2.23
30			5.24												2.63				
35			5.09	4.48		3.81	3.61	3.45	3.32		3.05	2.88		2.60	2.50		2.28	2.16	
40			4.98			3.71	3.51	3.35	3.22		2.95	2.78		2.50	2.40		2.18	2.06	
50		5.90		4.23		3.58		3.22	3.09	2.99	2.82	2.65		2.37	2.27	2.16		1.93	
60	8.49	5.79		4.14		3.49	3.29	3.13	3.01	2.90	2.74	2.57		2.29	2.19	2.08	1.96	1.83	
80	8.33		4.61	4.03		3.39	3.19	3.03		2.80	2.64	2.47		2.19	2.08		1.85	1.72	1.56
120	8.18					3.28	3.09	2.93	2.81	2.71	2.54	2.37		2.09	1.98		1.75	1.61	1.43
∞	7.88	5.30				3.09					2.36			1.90	1.79		1.53		
	l	l						l								l			

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										$\alpha = 0$.001									
98.4 998.8 998.8 998.8 998.3 999.3 9		1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	8
148.5 141.1 137.1 134.6 132.8 131.6 132.8 131.6 130.6 139.9 129.2 128.3 127.4 125.0 125.4 125.0 124.4 124.0 123.5 147.13 131.2 132.0 131.8 132.8 131.6 130.6 129.9 129.2 128.3 127.4 126.4 125.9 125.4 125.0 124.4 124.0 123.5 147.13 131.2 132.0 131.8 127.5 125.2 149.6 149.0 149.0 125.5 127.0	1	405312	499725	540257	562668	576496	586033	593185	597954	602245	605583	610352	616074	620842	623703	626087	628471	631332	634193	636578
1	2	998.4	998.8	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3	999.3
4 7.18 37.12 33.20 31.08 29.75 28.83 27.70 27.24 26.91 26.42 25.91 25.91 24.80 24.00 23.79 1.02 20.00 20.03 19.46 19.03 18.69 18.41 17.99 17.56 17.12 16.00 16.67 16.44 16.21 15.98 15.75 7 29.25 21.69 18.77 17.20 16.21 15.25 15.02 14.63 14.33 14.08 13.71 13.23 12.31 12.31 12.31 12.31 12.31 12.31 12.31 12.31 12.31 12.31 13.31 13.50 13.05 13.07 13.07 13.07 13.07 13.07 13.07 13.07 13.07 13.07 13.07 13.07 13.07 14.07 14.90 18.81 13.50 13.08 18.09 13.07 14.00 12.31 14.07 14.00 14.20 14.20 14.00 14.20 14.20 14.20 14.20 14.20 1	3	167.1	148.5	141.1	137.1	134.6	132.8	131.6	130.6	129.9	129.2	128.3	127.4	126.4	125.9	125.4	125.0	124.4	124.0	123.5
	4	74.13	61.25	56.17	53.43	51.72	50.52	49.65	49.00	48.47	48.05	47.41	46.76	46.10	45.77	45.43	45.08	44.75	44.40	44.05
1.7 1.7 1.7 1.7 1.8	5	47.18	37.12	33.20	31.08	29.75	28.83	28.17	27.65	27.24	26.91	26.42	25.91	25.39	25.13	24.87	24.60	24.33	24.06	23.79
8 25.41 18.49 18.83 14.39 13.48 12.40 12.40 11.70 11.54 11.19 10.84 10.48 10.30 10.11 9.92 9.73 9.53 9.33 9.33 9.33 9.33 9.33 9.34 8.00 7.81 10.11 19.69 13.81 11.56 10.35 9.58 9.05 8.25 8.25 8.27 7.01 6.80 6.68 6.52 6.35 6.16 6.00 12 18.64 12.97 10.80 9.63 8.89 8.83 8.00 7.71 7.48 7.29 7.00 6.71 6.40 6.25 6.09 5.93 5.76 5.59 5.42 13 17.82 12.31 10.21 9.77 8.80 6.80 6.80 6.52 6.23 5.93 5.76 5.40 5.75 5.25 5.10 6.50 6.50 6.50 6.40 6.20 8.81 5.55 5.27 4.99 4.85 4.70	6	35.51	27.00	23.71	21.92	20.80	20.03	19.46	19.03	18.69	18.41	17.99	17.56	17.12	16.90	16.67	16.44	16.21	15.98	15.75
	7	29.25	21.69	18.77	17.20	16.21	15.52	15.02	14.63	14.33	14.08	13.71	13.32	12.93	12.73	12.53	12.33	12.12	11.91	11.70
10 21.04 14.90 12.55 11.28 10.48 9.93 9.52 9.20 8.96 8.75 8.45 8.13 7.80 7.64 7.47 7.30 7.12 6.94 6.76 11 19.69 13.81 11.56 10.35 9.58 9.05 8.65 8.35 8.12 7.92 7.63 7.32 7.01 6.85 6.68 6.52 6.35 6.18 6.00 12 18.64 12.97 10.80 9.63 8.89 8.38 8.30 7.71 7.48 7.29 7.00 6.71 6.40 6.25 6.09 5.93 5.76 5.59 5.42 13 17.82 12.31 10.21 9.07 8.35 7.86 7.49 7.21 6.98 6.80 6.52 6.23 5.93 5.78 5.63 5.47 5.30 5.14 4.97 14 17.14 11.78 9.73 8.62 7.92 7.44 7.08 6.80 6.58 6.80 6.58 6.52 5.50 5.41 5.25 5.10 4.94 4.77 4.60 15 16.59 11.34 9.34 8.25 7.57 7.09 6.74 6.47 6.26 6.08 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.23 15 15.72 10.66 8.73 7.68 7.68 6.62 6.62 5.98 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.23 4.06 15 15.38 10.39 8.49 7.66 6.18 6.35 6.52 5.59 5.39 5.23 5.05 5.24 4.29 4.14 3.99 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.55 5.59 5.39 5.23 4.97 4.70 4.43 4.17 4.03 3.88 3.74 3.58 3.24 3.26 12 14.59 9.77 7.94 6.95 6.32 5.88 5.55 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.22 3.15 23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.09 4.89 4.43 4.38 4.58 4.33 4.06 3.92 3.84 3.63 3.48 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.54 4.39 4.14 3.97 3.66 3.52 3.37 3.22 3.05 24 14.03 9.34 7.57 6.70 6.08 5.65 5.33 5.09 4.89 4.43 4.43 4.06 3.92 3.46 3.52 3.38 3.22 3.05 3.38 3.24 3.26 3.34 3.25 3.38 3.22 3.05 3.38 3.24 3.25 3.38 3.24 3.25 3.38 3.24 3.25 3.38 3.24 3.25 3.38 3.24 3.25 3.38 3.24 3.25 3.38 3.24 3.25 3.28 3.25 3	8	25.41	18.49	15.83	14.39	13.48	12.86	12.40	12.05	11.77	11.54	11.19	10.84	10.48	10.30	10.11	9.92	9.73	9.53	9.33
11 19.69 13.81 11.56 10.35 9.58 9.58 8.65 8.35 8.12 7.92 7.63 7.32 7.01 6.85 6.68 6.52 6.35 6.18 6.00 12 18.64 12.97 10.80 9.63 8.89 8.38 8.00 7.71 7.48 7.29 7.00 6.71 6.40 6.25 6.09 5.93 5.76 5.59 5.42 13 17.82 12.31 10.21 9.07 8.35 7.86 7.49 7.21 6.89 6.80 6.52 6.23 5.93 5.78 5.63 5.47 5.30 5.14 4.97 14 17.14 11.78 9.73 8.62 7.92 7.44 7.08 6.80 6.85 6.60 6.08 5.81 5.55 5.56 5.10 4.95 4.80 4.64 4.48 4.31 16 16.12 10.97 9.01 7.94 7.27 6.80 6.64 6.20 5.98 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.23 4.06 17 15.72 10.66 8.73 7.68 7.02 6.56 6.22 5.96 5.75 5.58 5.32 5.05 5.47 4.95 4.45 4.30 4.18 4.02 3.85 18 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.56 5.56 5.39 5.13 4.87 4.59 4.45 4.30 4.15 4.00 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.44 5.25 5.05 4.44 4.17 4.45 4.35 4.45 4.45 4.45 21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.15 22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.92 3.78 3.63 3.48 3.32 3.15 23 14.20 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.73 4.48 4.23 3.96 3.52 3.59 3.44 3.29 3.15 25 13.88 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.45	9	22.86	16.39	13.90	12.56	11.71	11.13	10.70	10.37	10.11	9.89	9.57	9.24	8.90	8.72	8.55	8.37	8.19	8.00	7.81
12 18.64 12.97 10.80 9.63 8.89 8.38 8.00 7.71 7.48 7.29 7.00 6.71 6.40 6.25 6.09 5.93 5.76 5.59 5.42 4.97 14 17.14 11.78 9.73 8.62 7.92 7.44 7.08 6.80 6.80 6.80 6.81 6.93 5.56 5.51 5.50 5.10 4.94 4.77 4.60 15 16.59 11.34 9.34 8.25 7.57 7.09 6.74 6.47 6.26 6.08 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.23 15 15.72 10.66 8.73 7.68 7.02 6.56 6.22 5.96 5.75 5.58 5.32 5.05 5.77 4.99 4.85 4.70 4.54 4.39 4.23 4.66 15 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.76 5.56 5.39 5.39 5.22 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.39 5.22 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.68 21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.24 3.26 22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.92 3.78 3.63 3.48 3.22 3.15 23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.09 4.89 4.73 4.48 4.23 3.96 3.82 3.68 3.53 3.38 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.64 4.48 4.24 3.99 3.72 3.59 3.44 3.30 3.15 3.29 3.14 3.29 3.15 3.28	10	21.04	14.90	12.55	11.28	10.48	9.93	9.52	9.20	8.96	8.75	8.45	8.13	7.80	7.64	7.47	7.30	7.12	6.94	6.76
13 17.82 12.31 10.21 9.07 8.35 7.86 7.49 7.21 6.98 6.80 6.52 6.23 5.93 5.78 5.63 5.47 5.30 5.14 4.97 14 17.14 11.78 9.73 8.62 7.92 7.44 7.08 6.80 6.58 6.40 6.13 5.85 5.56 5.41 5.25 5.10 4.94 4.77 4.60 15 16.59 11.34 9.34 8.25 7.57 7.09 6.74 6.47 6.26 6.08 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.25 15 16.59 11.34 9.34 8.25 7.57 7.09 6.74 6.26 5.98 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.25 4.06 17 15.72 10.66 8.73 7.68 7.02 6.56 6.22 5.96 5.75 5.58 5.32 5.05 4.78 4.63 4.48 4.33 4.18 4.02 3.85 18 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.69 5.55 5.29 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.39 5.22 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.68 3.51 20 14.82 9.95 8.10 7.10 6.46 6.02 5.69 5.44 5.24 5.08 4.82 4.56 4.29 4.15 4.00 3.86 3.70 3.54 3.38 21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.26 22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.29 3.78 3.68 3.53 3.38 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.64 4.39 4.14 3.87 3.74 3.59 3.45 3.29 3.15 23 13.89 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.37 3.22 3.06 3.28 3.24 3.02 3.28 3.28 3.23 3.08 3.2	11	19.69	13.81	11.56	10.35	9.58	9.05	8.65	8.35	8.12	7.92	7.63	7.32	7.01	6.85	6.68	6.52	6.35	6.18	6.00
14 17.14 11.78 9.73 8.62 7.92 7.44 7.08 6.80 6.58 6.40 6.13 5.85 5.56 5.10 4.94 4.77 4.60 15 16.59 11.34 9.34 8.25 7.57 7.09 6.74 6.47 6.26 6.08 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.23 4.06 17 15.72 10.66 8.73 7.68 7.02 6.56 6.22 5.96 5.75 5.58 5.32 5.05 4.78 4.63 4.48 4.33 4.18 4.02 3.85 18 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.76 5.59 5.39 5.22 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.68 3.51 19 15.08 10.16 8.20 5.58 5.59 5.39 5.22 4.97	12	18.64	12.97	10.80	9.63	8.89	8.38	8.00	7.71	7.48	7.29	7.00	6.71	6.40	6.25	6.09	5.93	5.76	5.59	5.42
15 16.59 11.34 9.34 8.25 7.57 7.09 6.74 6.46 6.20 5.98 5.81 5.55 5.27 4.99 4.85 4.70 4.64 4.48 4.31 16 16.12 10.97 9.01 7.94 7.27 6.80 6.46 6.20 5.98 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.33 4.23 4.06 17 15.72 10.66 8.73 7.68 6.02 5.69 5.56 5.39 5.13 4.87 4.59 4.45 4.30 4.15 4.00 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.39 5.22 4.97 4.79 4.43 4.99 4.41 3.99 3.84 3.68 3.51 20 14.82 9.95 8.10 7.10 6.66 6.02 5.69 5.44 5.19 4.99	13	17.82	12.31	10.21	9.07	8.35	7.86	7.49	7.21	6.98	6.80	6.52	6.23	5.93	5.78	5.63	5.47	5.30	5.14	4.97
16 16.12 10.97 9.01 7.94 7.27 6.80 6.46 6.20 5.98 5.81 5.55 5.27 4.99 4.85 4.70 4.54 4.39 4.23 4.06 17 15.72 10.66 8.73 7.68 7.02 6.56 6.22 5.96 5.75 5.58 5.32 5.05 4.78 4.63 4.48 4.33 4.18 4.02 3.85 18 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.76 5.56 5.39 5.13 4.87 4.59 4.45 4.30 4.15 4.00 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.69 5.44 5.24 5.08 4.82 4.56 4.29 4.15 4.00 3.84 3.63 3.44 3.88 3.74 3.58 3.42 3.26 21 14.59 9.77 7.94 6.95 6.82	14	17.14	11.78	9.73	8.62	7.92	7.44	7.08	6.80	6.58	6.40	6.13	5.85	5.56	5.41	5.25	5.10	4.94	4.77	4.60
17 15.72 10.66 8.73 7.68 7.02 6.56 6.22 5.96 5.75 5.58 5.32 5.05 4.78 4.63 4.48 4.33 4.18 4.02 3.84 18 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.76 5.56 5.39 5.13 4.87 4.59 4.45 4.30 4.15 4.00 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.39 5.13 4.70 4.43 4.29 4.14 3.99 3.84 3.68 3.61 20 14.82 9.97 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.99 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.26 22 14.38 9.61 7.80 6.81 5.19 5.76 5.44 5.19 4.89	15	16.59	11.34	9.34	8.25	7.57	7.09	6.74	6.47	6.26	6.08	5.81	5.54	5.25	5.10	4.95	4.80	4.64	4.48	4.31
18 15.38 10.39 8.49 7.46 6.81 6.35 6.02 5.76 5.56 5.39 5.13 4.87 4.59 4.45 4.30 4.15 4.00 3.84 3.67 19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.39 5.22 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.68 3.51 20 14.82 9.95 8.10 7.10 6.46 6.02 5.69 5.44 5.24 5.08 4.82 4.56 4.29 4.15 4.00 3.86 3.70 3.54 3.38 21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.59 3.42 3.26 22 14.38 9.61 7.80 6.85 5.55 5.24 4.99 4.80	16	16.12	10.97	9.01	7.94	7.27	6.80	6.46	6.20	5.98	5.81	5.55	5.27	4.99	4.85	4.70	4.54	4.39	4.23	4.06
19 15.08 10.16 8.28 7.27 6.62 6.18 5.85 5.59 5.39 5.22 4.97 4.70 4.43 4.29 4.14 3.99 3.84 3.68 3.51 20 14.82 9.95 8.10 7.10 6.46 6.02 5.69 5.44 5.24 5.08 4.82 4.56 4.29 4.15 4.00 3.86 3.70 3.54 3.38 21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.26 22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.92 3.78 3.63 3.48 3.32 3.15 23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.09 4.89 4.73 4.48 4.23 3.96 3.82 3.65 3.33 3.2	17	15.72	10.66	8.73	7.68	7.02	6.56	6.22	5.96	5.75	5.58	5.32	5.05	4.78	4.63	4.48	4.33	4.18	4.02	3.85
20 14.82 9.95 8.10 7.10 6.46 6.02 5.69 5.44 5.24 5.08 4.82 4.56 4.29 4.15 4.00 3.86 3.70 3.54 3.38 21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.26 22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.92 3.78 3.63 3.48 3.32 3.15 23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.09 4.89 4.73 4.48 4.23 3.96 3.82 3.68 3.53 3.38 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.37 3.22	18	15.38	10.39	8.49	7.46	6.81	6.35	6.02	5.76	5.56	5.39	5.13	4.87	4.59	4.45	4.30	4.15	4.00	3.84	3.67
21 14.59 9.77 7.94 6.95 6.32 5.88 5.56 5.31 5.11 4.95 4.70 4.44 4.17 4.03 3.88 3.74 3.58 3.42 3.26 22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.92 3.78 3.63 3.48 3.32 3.15 23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.00 4.89 4.73 4.48 4.23 3.96 3.82 3.68 3.53 3.38 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.64 4.39 4.14 3.87 3.74 3.59 3.44 3.29 3.14 2.97 25 13.88 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.38 3.23	19	15.08	10.16	8.28	7.27	6.62	6.18	5.85	5.59	5.39	5.22	4.97	4.70	4.43	4.29	4.14	3.99	3.84	3.68	3.51
22 14.38 9.61 7.80 6.81 6.19 5.76 5.44 5.19 4.99 4.83 4.58 4.33 4.06 3.92 3.78 3.63 3.48 3.32 3.15 23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.09 4.89 4.73 4.48 4.23 3.96 3.82 3.68 3.53 3.38 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.64 4.39 4.14 3.87 3.74 3.59 3.45 3.29 3.14 2.97 25 13.88 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.37 3.22 3.06 2.89 26 13.74 9.12 7.36 6.41 5.80 5.38 5.07 4.83 4.64 4.48 4.24 3.99 3.72 3.59 3.44 3.30 3.15	20	14.82	9.95	8.10	7.10	6.46	6.02	5.69	5.44	5.24	5.08	4.82	4.56	4.29	4.15	4.00	3.86	3.70	3.54	3.38
23 14.20 9.47 7.67 6.70 6.08 5.65 5.33 5.09 4.89 4.73 4.48 4.23 3.96 3.82 3.68 3.53 3.38 3.22 3.05 24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.64 4.39 4.14 3.87 3.74 3.59 3.45 3.29 3.14 2.97 25 13.88 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.37 3.22 3.06 2.89 26 13.74 9.12 7.36 6.41 5.80 5.38 5.07 4.83 4.64 4.48 4.24 3.99 3.72 3.59 3.44 3.30 3.15 2.99 2.82 27 13.61 9.02 7.27 6.33 5.73 5.31 5.00 4.76 4.57 4.41 4.17 3.92 3.66 3.52 3.38 3.23 3.08	21	14.59	9.77	7.94	6.95	6.32	5.88	5.56	5.31	5.11	4.95	4.70	4.44	4.17	4.03	3.88	3.74	3.58	3.42	3.26
24 14.03 9.34 7.55 6.59 5.98 5.55 5.24 4.99 4.80 4.64 4.39 4.14 3.87 3.74 3.59 3.45 3.29 3.14 2.97 25 13.88 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.37 3.22 3.06 2.89 26 13.74 9.12 7.36 6.41 5.80 5.38 5.07 4.83 4.64 4.48 4.24 3.99 3.72 3.59 3.44 3.30 3.15 2.99 2.82 27 13.61 9.02 7.27 6.33 5.73 5.31 5.00 4.76 4.57 4.41 4.17 3.92 3.66 3.52 3.38 3.23 3.08 2.92 2.75 28 13.50 8.93 7.19 6.25 5.66 5.24 4.93 4.69 4.50 4.35 4.11 3.86 3.60 3.46 3.32 3.18 3.02	22	14.38	9.61	7.80	6.81	6.19	5.76	5.44	5.19	4.99	4.83	4.58	4.33	4.06	3.92	3.78	3.63	3.48	3.32	3.15
25 13.88 9.22 7.45 6.49 5.89 5.46 5.15 4.91 4.71 4.56 4.31 4.06 3.79 3.66 3.52 3.37 3.22 3.06 2.89 26 13.74 9.12 7.36 6.41 5.80 5.38 5.07 4.83 4.64 4.48 4.24 3.99 3.72 3.59 3.44 3.30 3.15 2.99 2.82 27 13.61 9.02 7.27 6.33 5.73 5.31 5.00 4.76 4.57 4.41 4.17 3.92 3.66 3.52 3.38 3.23 3.08 2.92 2.75 28 13.50 8.93 7.19 6.25 5.66 5.24 4.93 4.69 4.50 4.35 4.11 3.86 3.60 3.46 3.32 3.18 3.02 2.86 2.69 29 13.39 8.85 7.12 6.19 5.59 5.18 4.87 4.64 4.45 4.29 4.05 3.80 3.54 3.41 3.27 3.12 2.97	23	14.20	9.47	7.67	6.70	6.08	5.65	5.33	5.09	4.89	4.73	4.48	4.23	3.96	3.82	3.68	3.53	3.38	3.22	3.05
26 13.74 9.12 7.36 6.41 5.80 5.38 5.07 4.83 4.64 4.48 4.24 3.99 3.72 3.59 3.44 3.30 3.15 2.99 2.82 27 13.61 9.02 7.27 6.33 5.73 5.31 5.00 4.76 4.57 4.41 4.17 3.92 3.66 3.52 3.38 3.23 3.08 2.92 2.75 28 13.50 8.93 7.19 6.25 5.66 5.24 4.93 4.69 4.50 4.35 4.11 3.86 3.60 3.46 3.32 3.18 3.02 2.86 2.69 29 13.39 8.85 7.12 6.19 5.59 5.18 4.87 4.64 4.45 4.29 4.05 3.80 3.54 3.41 3.27 3.12 2.97 2.81 2.64 30 13.29 8.77 7.05 6.12 5.53 5.12 4.82 4.58 4.39 4.24 4.00 3.75 3.49 3.36 3.22 3.07 2.92	24	14.03	9.34	7.55	6.59	5.98	5.55	5.24	4.99	4.80	4.64	4.39	4.14	3.87	3.74	3.59	3.45	3.29	3.14	2.97
27 13.61 9.02 7.27 6.33 5.73 5.31 5.00 4.76 4.57 4.41 4.17 3.92 3.66 3.52 3.38 3.23 3.08 2.92 2.75 28 13.50 8.93 7.19 6.25 5.66 5.24 4.93 4.69 4.50 4.35 4.11 3.86 3.60 3.46 3.32 3.18 3.02 2.86 2.69 29 13.39 8.85 7.12 6.19 5.59 5.18 4.87 4.64 4.45 4.29 4.05 3.80 3.54 3.41 3.27 3.12 2.97 2.81 2.64 30 13.29 8.77 7.05 6.12 5.53 5.12 4.82 4.58 4.39 4.24 4.00 3.75 3.49 3.36 3.22 3.07 2.92 2.76 2.59 35 12.90 8.47 6.79 5.88 5.30 4.89 4.59 4.36 4.18 4.03 3.79 3.55 3.29 3.16 3.02 2.87 2.72	25	13.88	9.22	7.45	6.49	5.89	5.46	5.15	4.91	4.71	4.56	4.31	4.06	3.79	3.66	3.52	3.37	3.22	3.06	2.89
28 13.50 8.93 7.19 6.25 5.66 5.24 4.93 4.69 4.50 4.35 4.11 3.86 3.60 3.46 3.32 3.18 3.02 2.86 2.69 29 13.39 8.85 7.12 6.19 5.59 5.18 4.87 4.64 4.45 4.29 4.05 3.80 3.54 3.41 3.27 3.12 2.97 2.81 2.64 30 13.29 8.77 7.05 6.12 5.53 5.12 4.82 4.58 4.39 4.24 4.00 3.75 3.49 3.36 3.22 3.07 2.92 2.76 2.59 35 12.90 8.47 6.79 5.88 5.30 4.89 4.59 4.36 4.18 4.03 3.79 3.55 3.29 3.16 3.02 2.87 2.72 2.56 2.38 40 12.61 8.25 6.59 5.70 5.13 4.73 4.44 4.21 4.02 3.87 3.64 3.40 3.15 3.01 2.87 2.73 2.57	26	13.74	9.12	7.36	6.41	5.80	5.38	5.07	4.83	4.64	4.48	4.24	3.99	3.72	3.59	3.44	3.30	3.15	2.99	2.82
29 13.39 8.85 7.12 6.19 5.59 5.18 4.87 4.64 4.45 4.29 4.05 3.80 3.54 3.41 3.27 3.12 2.97 2.81 2.64 30 13.29 8.77 7.05 6.12 5.53 5.12 4.82 4.58 4.39 4.24 4.00 3.75 3.49 3.36 3.22 3.07 2.92 2.76 2.59 35 12.90 8.47 6.79 5.88 5.30 4.89 4.59 4.36 4.18 4.03 3.79 3.55 3.29 3.16 3.02 2.87 2.72 2.56 2.38 40 12.61 8.25 6.59 5.70 5.13 4.73 4.44 4.21 4.02 3.87 3.64 3.40 3.15 3.01 2.87 2.73 2.57 2.41 2.23 50 12.22 7.96 6.34 5.46 4.90 4.51 4.22 4.00 3.82 3.67 3.44 3.20 2.95 2.82 2.68 2.53 2.38	27	13.61	9.02	7.27	6.33	5.73	5.31	5.00	4.76	4.57	4.41	4.17	3.92	3.66	3.52	3.38	3.23	3.08	2.92	2.75
30 13.29 8.77 7.05 6.12 5.53 5.12 4.82 4.58 4.39 4.24 4.00 3.75 3.49 3.36 3.22 3.07 2.92 2.76 2.59 35 12.90 8.47 6.79 5.88 5.30 4.89 4.59 4.36 4.18 4.03 3.79 3.55 3.29 3.16 3.02 2.87 2.72 2.56 2.38 40 12.61 8.25 6.59 5.70 5.13 4.73 4.44 4.21 4.02 3.87 3.64 3.40 3.15 3.01 2.87 2.73 2.57 2.41 2.23 50 12.22 7.96 6.34 5.46 4.90 4.51 4.22 4.00 3.82 3.67 3.44 3.20 2.95 2.82 2.68 2.53 2.38 2.21 2.03 60 11.97 7.77 6.17 5.31 4.76 4.37 4.09 3.86 3.69 3.54 3.32 3.08 2.83 2.69 2.55 2.41 2.25 2.08 1.89 80 11.67 7.54 5.97 5.12 4.58 4.20 3.92 3.70 3.53 3.39 3.16 2.93 2.68 2.54 2.41 2.26 2.10 1.92 1.72 120 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.95 1.77 1.54	28	13.50	8.93	7.19	6.25	5.66	5.24	4.93	4.69	4.50	4.35	4.11	3.86	3.60	3.46	3.32	3.18	3.02	2.86	2.69
35 12.90 8.47 6.79 5.88 5.30 4.89 4.59 4.36 4.18 4.03 3.79 3.55 3.29 3.16 3.02 2.87 2.72 2.56 2.38 4.00 12.61 8.25 6.59 5.70 5.13 4.73 4.44 4.21 4.02 3.87 3.64 3.40 3.15 3.01 2.87 2.73 2.57 2.41 2.23 50 12.22 7.96 6.34 5.46 4.90 4.51 4.22 4.00 3.82 3.67 3.44 3.20 2.95 2.82 2.68 2.53 2.38 2.21 2.03 60 11.97 7.77 6.17 5.31 4.76 4.37 4.09 3.86 3.69 3.54 3.32 3.08 2.83 2.69 2.55 2.41 2.25 2.08 1.89 80 11.67 7.54 5.97 5.12 4.58 4.20 3.92 3.70 3.53 3.39 3.16 2.93 2.68 2.54 2.41 2.26 2.10 1.92 1.72 1.20 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.95 1.77 1.54 1.54 1.55	29	13.39	8.85	7.12	6.19	5.59	5.18	4.87	4.64	4.45	4.29	4.05	3.80	3.54	3.41	3.27	3.12	2.97	2.81	2.64
40 12.61 8.25 6.59 5.70 5.13 4.73 4.44 4.21 4.02 3.87 3.64 3.40 3.15 3.01 2.87 2.73 2.57 2.41 2.23 50 12.22 7.96 6.34 5.46 4.90 4.51 4.22 4.00 3.82 3.67 3.44 3.20 2.95 2.82 2.68 2.53 2.38 2.21 2.03 60 11.97 7.77 6.17 5.31 4.76 4.37 4.09 3.86 3.69 3.54 3.32 3.08 2.83 2.69 2.55 2.41 2.25 2.08 1.89 80 11.67 7.54 5.97 5.12 4.58 4.20 3.92 3.70 3.53 3.39 3.16 2.93 2.68 2.54 2.41 2.26 2.10 1.92 1.72 120 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.9	30	13.29	8.77	7.05	6.12	5.53	5.12	4.82	4.58	4.39	4.24	4.00	3.75	3.49	3.36	3.22	3.07	2.92	2.76	2.59
50 12.22 7.96 6.34 5.46 4.90 4.51 4.22 4.00 3.82 3.67 3.44 3.20 2.95 2.82 2.68 2.53 2.38 2.21 2.03 60 11.97 7.77 6.17 5.31 4.76 4.37 4.09 3.86 3.69 3.54 3.32 3.08 2.83 2.69 2.55 2.41 2.25 2.08 1.89 80 11.67 7.54 5.97 5.12 4.58 4.20 3.92 3.70 3.53 3.39 3.16 2.93 2.68 2.54 2.41 2.26 2.10 1.92 1.72 120 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.95 1.77 1.54	35	12.90	8.47	6.79	5.88	5.30	4.89	4.59	4.36	4.18	4.03	3.79	3.55	3.29	3.16	3.02	2.87	2.72	2.56	2.38
60 11.97 7.77 6.17 5.31 4.76 4.37 4.09 3.86 3.69 3.54 3.32 3.08 2.83 2.69 2.55 2.41 2.25 2.08 1.89 80 11.67 7.54 5.97 5.12 4.58 4.20 3.92 3.70 3.53 3.39 3.16 2.93 2.68 2.54 2.41 2.26 2.10 1.92 1.72 120 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.95 1.77 1.54	40	12.61	8.25	6.59	5.70	5.13	4.73	4.44	4.21	4.02	3.87	3.64	3.40	3.15	3.01	2.87	2.73	2.57	2.41	2.23
80 11.67 7.54 5.97 5.12 4.58 4.20 3.92 3.70 3.53 3.39 3.16 2.93 2.68 2.54 2.41 2.26 2.10 1.92 1.72 120 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.95 1.77 1.54	50	12.22	7.96	6.34	5.46	4.90	4.51	4.22	4.00	3.82	3.67	3.44	3.20	2.95	2.82	2.68	2.53	2.38	2.21	2.03
120 11.38 7.32 5.78 4.95 4.42 4.04 3.77 3.55 3.38 3.24 3.02 2.78 2.53 2.40 2.26 2.11 1.95 1.77 1.54	60	11.97	7.77	6.17	5.31	4.76	4.37	4.09	3.86	3.69	3.54	3.32	3.08	2.83	2.69	2.55	2.41	2.25	2.08	1.89
	80	11.67	7.54	5.97	5.12	4.58	4.20	3.92	3.70	3.53	3.39	3.16	2.93	2.68	2.54	2.41	2.26	2.10	1.92	1.72
∞ 10.83 6.91 5.42 4.62 4.10 3.74 3.47 3.27 3.10 2.96 2.74 2.51 2.27 2.13 1.99 1.84 1.66 1.45 1.00	120	11.38	7.32	5.78	4.95	4.42	4.04	3.77	3.55	3.38	3.24			2.53	2.40	2.26	2.11	1.95	1.77	1.54
		10.83	6.91	5.42	4.62	4.10	3.74	3.47	3.27	3.10	2.96	2.74	2.51	2.27	2.13	1.99	1.84	1.66	1.45	1.00

附表 7 相关系数检验表

$$P\{|r|>r_{\alpha}\}=\alpha$$

<i>n</i> -2	α =0.25	α =0.1	α =0.05	α =0.025	α =0.01	α =0.005
1	0. 9239	0. 9877	0. 9969	0.9992	0. 9999	1.0000
2 3	0.7500	0.9000	0.9500	0.9750	0.9900	0.9950
3	0.6347	0.8054	0.8783	0.9237	0. 9587	0.9740
4	0. 5579	0.7293	0.8114	0.8680	0.9172	0.9417
4 5 6	0.5029	0.6694	0.7545	0.8166	0.8745	0.9056
	0.4612	0.6215	0.7067	0.7713	0.8343	0.8697
7	0.4284	0.5822	0.6664	0.7318	0. 7977	0.8359
8	0.4016	0. 5494	0.6319	0.6973	0. 7646	0.8046
9	0.3793	0.5214	0.6021	0.6669	0. 7348	0.7759
10	0.3603	0.4973	0. 5760	0.6400	0. 7079	0.7496
11	0.3438	0.4762	0. 5529	0.6159	0. 6835	0.7255
12	0. 3295	0. 4575	0. 5324	0. 5943	0.6614	0.7034
13	0.3168	0. 4409	0. 5140	0. 5748	0.6411	0.6831
14	0.3054	0. 4259	0. 4973	0. 5570	0. 6226	0.6643
15	0. 2952	0.4124	0. 4821	0.5408	0. 6055	0.6470
16	0. 2860	0.4000	0. 4683	0. 5258	0. 5897	0. 6308
17	0. 2775	0.3887	0. 4555	0. 5121	0. 5751	0. 6158
18	0. 2698	0.3783	0. 4438	0. 4993	0. 5614	0.6018
19	0. 2627	0.3687	0. 4329	0. 4875	0. 5487	0. 5886
20	0. 2561	0.3598	0. 4227	0. 4764	0. 5368	0. 5763
21	0. 2500	0.3515	0. 4132	0. 4660	0. 5256	0. 5647
22	0. 2443	0.3438	0. 4044	0. 4563	0. 5151	0. 5537
23	0. 2390	0.3365	0.3961	0. 4472	0. 5052	0. 5434
24	0. 2340	0. 3297	0.3882	0. 4386	0. 4958	0. 5336
25	0. 2293	0. 3233	0.3809	0. 4305	0. 4869	0. 5243
26	0. 2248	0.3172	0. 3739	0. 4228	0. 4785	0. 5154
27	0. 2207	0.3115	0.3673	0. 4155	0. 4705	0. 5070
28	0. 2167	0.3061	0.3610	0. 4085	0. 4629	0. 4990 0. 4914
29 30	0. 2130 0. 2094	0. 3009 0. 2960	0. 3550 0. 3494	0. 4019 0. 3956	0. 4556 0. 4487	0. 4914
30 35	0. 2094	0. 2746	0. 3494	0. 3930	0. 4487	
35 40	0. 1940	0. 2740	0. 3240	0. 3456	0. 4182	0. 4518 0. 4252
40 45	0. 1712	0. 2373	0. 3044	0. 3450	0. 3932	0. 4232
50	0. 1712	0. 2429	0. 2732	0. 3207	0. 3721	0. 4028
60	0. 1624	0. 2300	0. 2732	0. 3100	0. 3342	0. 3522
70	0. 1463	0. 2108	0. 2319	0. 2641	0. 3248	0. 3274
80	0. 1373	0. 1334	0. 2313	0. 2475	0. 2830	0. 3274
90	0. 1203	0. 1829	0. 2172	0. 2473	0. 2673	0. 3072
100	0. 1211	0. 1720	0. 2030	0. 2330	0. 2540	0. 2759
150	0. 1143	0. 1339	0. 1540	0. 2213	0. 2083	0. 2766
200	0.0333	0. 1353	0. 1333	0. 1517	0. 2003	0. 1968
	0.0013	0.1101	0.1901	U. 1377	0. 1009	0. 1908