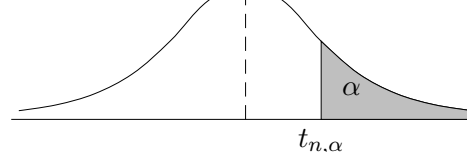


Áreas bajo la curva normal, $N(0, 1)$
 Si $Z \sim N(0, 1)$ entonces $P(Z \geq z_\alpha) = \alpha$.

z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641
0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
3.0	0.0013	0.0013	0.0013	0.0012	0.0012	0.0011	0.0011	0.0011	0.0010	0.0010
3.1	0.0010	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007
3.2	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0005
3.3	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0003
3.4	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002
3.5	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
3.6	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

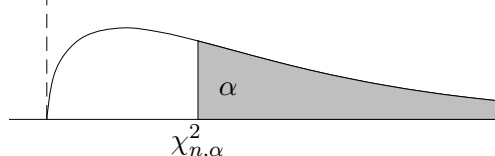
$z_{0.4} = 0.25335$ $z_{0.3} = 0.52440$ $z_{0.2} = 0.84162$ $z_{0.1} = 1.28155$
 $z_{0.05} = 1.64485$ $z_{0.025} = 1.95996$ $z_{0.01} = 2.32634$ $z_{0.005} = 2.57583$



Valores críticos de la T de Student, $t(n)$.

Si $T \sim t(n)$ entonces $P(T \geq t_{n, \alpha}) = \alpha$.

n	α										
	0.40	0.30	0.20	0.10	0.05	0.025	0.02	0.01	0.005	0.0025	0.0005
1	0.3249	0.7265	1.3764	3.0777	6.3137	12.7062	15.8945	31.8210	63.6559	127.3211	636.5776
2	0.2887	0.6172	1.0607	1.8856	2.9200	4.3027	4.8487	6.9645	9.9250	14.0892	31.5998
3	0.2767	0.5844	0.9785	1.6377	2.3534	3.1824	3.4819	4.5407	5.8408	7.4532	12.9244
4	0.2707	0.5686	0.9410	1.5332	2.1318	2.7765	2.9985	3.7469	4.6041	5.5975	8.6101
5	0.2672	0.5594	0.9195	1.4759	2.0150	2.5706	2.7565	3.3649	4.0321	4.7733	6.8685
6	0.2648	0.5534	0.9057	1.4398	1.9432	2.4469	2.6122	3.1427	3.7074	4.3168	5.9587
7	0.2632	0.5491	0.8960	1.4149	1.8946	2.3646	2.5168	2.9979	3.4995	4.0294	5.4081
8	0.2619	0.5459	0.8889	1.3968	1.8595	2.3060	2.4490	2.8965	3.3554	3.8325	5.0414
9	0.2610	0.5435	0.8834	1.3830	1.8331	2.2622	2.3984	2.8214	3.2498	3.6896	4.7809
10	0.2602	0.5415	0.8791	1.3722	1.8125	2.2281	2.3593	2.7638	3.1693	3.5814	4.5868
11	0.2596	0.5399	0.8755	1.3634	1.7959	2.2010	2.3281	2.7181	3.1058	3.4966	4.4369
12	0.2590	0.5386	0.8726	1.3562	1.7823	2.1788	2.3027	2.6810	3.0545	3.4284	4.3178
13	0.2586	0.5375	0.8702	1.3502	1.7709	2.1604	2.2816	2.6503	3.0123	3.3725	4.2209
14	0.2582	0.5366	0.8681	1.3450	1.7613	2.1448	2.2638	2.6245	2.9768	3.3257	4.1403
15	0.2579	0.5357	0.8662	1.3406	1.7531	2.1315	2.2485	2.6025	2.9467	3.2860	4.0728
16	0.2576	0.5350	0.8647	1.3368	1.7459	2.1199	2.2354	2.5835	2.9208	3.2520	4.0149
17	0.2573	0.5344	0.8633	1.3334	1.7396	2.1098	2.2238	2.5669	2.8982	3.2224	3.9651
18	0.2571	0.5338	0.8620	1.3304	1.7341	2.1009	2.2137	2.5524	2.8784	3.1966	3.9217
19	0.2569	0.5333	0.8610	1.3277	1.7291	2.0930	2.2047	2.5395	2.8609	3.1737	3.8833
20	0.2567	0.5329	0.8600	1.3253	1.7247	2.0860	2.1967	2.5280	2.8453	3.1534	3.8496
21	0.2566	0.5325	0.8591	1.3232	1.7207	2.0796	2.1894	2.5176	2.8314	3.1352	3.8193
22	0.2564	0.5321	0.8583	1.3212	1.7171	2.0739	2.1829	2.5083	2.8188	3.1188	3.7922
23	0.2563	0.5317	0.8575	1.3195	1.7139	2.0687	2.1770	2.4999	2.8073	3.1040	3.7676
24	0.2562	0.5314	0.8569	1.3178	1.7109	2.0639	2.1715	2.4922	2.7970	3.0905	3.7454
25	0.2561	0.5312	0.8562	1.3163	1.7081	2.0595	2.1666	2.4851	2.7874	3.0782	3.7251
26	0.2560	0.5309	0.8557	1.3150	1.7056	2.0555	2.1620	2.4786	2.7787	3.0669	3.7067
27	0.2559	0.5306	0.8551	1.3137	1.7033	2.0518	2.1578	2.4727	2.7707	3.0565	3.6895
28	0.2558	0.5304	0.8546	1.3125	1.7011	2.0484	2.1539	2.4671	2.7633	3.0470	3.6739
29	0.2557	0.5302	0.8542	1.3114	1.6991	2.0452	2.1503	2.4620	2.7564	3.0380	3.6595
30	0.2556	0.5300	0.8538	1.3104	1.6973	2.0423	2.1470	2.4573	2.7500	3.0298	3.6460
40	0.2550	0.5286	0.8507	1.3031	1.6839	2.0211	2.1229	2.4233	2.7045	2.9712	3.5510
60	0.2545	0.5272	0.8477	1.2958	1.6706	2.0003	2.0994	2.3901	2.6603	2.9146	3.4602
120	0.2539	0.5258	0.8446	1.2886	1.6576	1.9799	2.0763	2.3578	2.6174	2.8599	3.3734
∞	0.2534	0.5244	0.8417	1.2816	1.6450	1.9602	2.0540	2.3267	2.5763	2.8076	3.2915



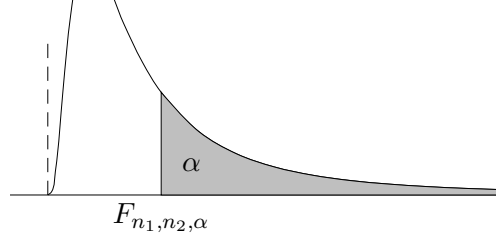
Valores críticos de la Chi-cuadrado, $\chi^2(n)$.

Si $X \sim \chi^2(n)$ entonces $P(X \geq \chi^2_{n,\alpha}) = \alpha$.

	α										
	0.99	0.975	0.95	0.90	0.75	0.50	0.25	0.10	0.05	0.025	0.01
1	0.0002	0.0010	0.0039	0.0158	0.1015	0.4549	1.3233	2.7055	3.8415	5.0239	6.6349
2	0.0201	0.0506	0.1026	0.2107	0.5754	1.3863	2.7726	4.6052	5.9915	7.3778	9.2104
3	0.1148	0.2158	0.3518	0.5844	1.2125	2.3660	4.1083	6.2514	7.8147	9.3484	11.3449
4	0.2971	0.4844	0.7107	1.0636	1.9226	3.3567	5.3853	7.7794	9.4877	11.1433	13.2767
5	0.5543	0.8312	1.1455	1.6103	2.6746	4.3515	6.6257	9.2363	11.0705	12.8325	15.0863
6	0.8721	1.2373	1.6354	2.2041	3.4546	5.3481	7.8408	10.6446	12.5916	14.4494	16.8119
7	1.2390	1.6899	2.1673	2.8331	4.2549	6.3458	9.0371	12.0170	14.0671	16.0128	18.4753
8	1.6465	2.1797	2.7326	3.4895	5.0706	7.3441	10.2189	13.3616	15.5073	17.5345	20.0902
9	2.0879	2.7004	3.3251	4.1682	5.8988	8.3428	11.3887	14.6837	16.9190	19.0228	21.6660
10	2.5582	3.2470	3.9403	4.8652	6.7372	9.3418	12.5489	15.9872	18.3070	20.4832	23.2093
11	3.0535	3.8157	4.5748	5.5778	7.5841	10.3410	13.7007	17.2750	19.6752	21.9200	24.7250
12	3.5706	4.4038	5.2260	6.3038	8.4384	11.3403	14.8454	18.5493	21.0261	23.3367	26.2170
13	4.1069	5.0087	5.8919	7.0415	9.2991	12.3398	15.9839	19.8119	22.3620	24.7356	27.6882
14	4.6604	5.6287	6.5706	7.7895	10.1653	13.3393	17.1169	21.0641	23.6848	26.1189	29.1412
15	5.2294	6.2621	7.2609	8.5468	11.0365	14.3389	18.2451	22.3071	24.9958	27.4884	30.5780
16	5.8122	6.9077	7.9616	9.3122	11.9122	15.3385	19.3689	23.5418	26.2962	28.8453	31.9999
17	6.4077	7.5642	8.6718	10.0852	12.7919	16.3382	20.4887	24.7690	27.5871	30.1910	33.4087
18	7.0149	8.2307	9.3904	10.8649	13.6753	17.3379	21.6049	25.9894	28.8693	31.5264	34.8052
19	7.6327	8.9065	10.1170	11.6509	14.5620	18.3376	22.7178	27.2036	30.1435	32.8523	36.1908
20	8.2604	9.5908	10.8508	12.4426	15.4518	19.3374	23.8277	28.4120	31.4104	34.1696	37.5663
21	8.8972	10.2829	11.5913	13.2396	16.3444	20.3372	24.9348	29.6151	32.6706	35.4789	38.9322
22	9.5425	10.9823	12.3380	14.0415	17.2396	21.3370	26.0393	30.8133	33.9245	36.7807	40.2894
23	10.1957	11.6885	13.0905	14.8480	18.1373	22.3369	27.1413	32.0069	35.1725	38.0756	41.6383
24	10.8563	12.4011	13.8484	15.6587	19.0373	23.3367	28.2412	33.1962	36.4150	39.3641	42.9798
25	11.5240	13.1197	14.6114	16.4734	19.9393	24.3366	29.3388	34.3816	37.6525	40.6465	44.3140
26	12.1982	13.8439	15.3792	17.2919	20.8434	25.3365	30.4346	35.5632	38.8851	41.9231	45.6416
27	12.8785	14.5734	16.1514	18.1139	21.7494	26.3363	31.5284	36.7412	40.1133	43.1945	46.9628
28	13.5647	15.3079	16.9279	18.9392	22.6572	27.3362	32.6205	37.9159	41.3372	44.4608	48.2782
29	14.2564	16.0471	17.7084	19.7677	23.5666	28.3361	33.7109	39.0875	42.5569	45.7223	49.5878
30	14.9535	16.7908	18.4927	20.5992	24.4776	29.3360	34.7997	40.2560	43.7730	46.9792	50.8922

Para $n \geq 10$, una buena aproximación del valor crítico de la Chi-cuadrado es:

$$\chi^2_{n,\alpha} \simeq n \left(1 - \frac{2}{9n} + z_\alpha \sqrt{\frac{2}{9n}} \right)^3$$



Valores críticos de la F de Fisher-Snedecor, $F(n_1, n_2)$.

Si $F \sim F(n_1, n_2)$ entonces $P(F \geq F_{n_1, n_2, \alpha}) = \alpha$.

$\alpha = 0,05$

n_2	n_1											
	1	2	3	4	5	6	7	8	9	10	15	20
1	161.446	199.499	215.707	224.583	230.160	233.988	236.767	238.884	240.543	241.882	245.949	248.016
2	18.513	19.000	19.164	19.247	19.296	19.329	19.353	19.371	19.385	19.396	19.429	19.446
3	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	8.785	8.703	8.660
4	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	5.964	5.858	5.803
5	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	4.735	4.619	4.558
6	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	4.060	3.938	3.874
7	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	3.637	3.511	3.445
8	5.318	4.459	4.066	3.838	3.688	3.581	3.500	3.438	3.388	3.347	3.218	3.150
9	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230	3.179	3.137	3.006	2.936
10	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072	3.020	2.978	2.845	2.774
11	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948	2.896	2.854	2.719	2.646
12	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849	2.796	2.753	2.617	2.544
13	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767	2.714	2.671	2.533	2.459
14	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	2.602	2.463	2.388
15	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	2.544	2.403	2.328
16	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	2.494	2.352	2.276
17	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548	2.494	2.450	2.308	2.230
18	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	2.412	2.269	2.191
19	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	2.378	2.234	2.155
20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348	2.203	2.124
21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	2.321	2.176	2.096
22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397	2.342	2.297	2.151	2.071
23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	2.275	2.128	2.048
24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	2.255	2.108	2.027
25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	2.236	2.089	2.007
26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	2.220	2.072	1.990
27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	2.204	2.056	1.974
28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	2.190	2.041	1.959
29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	2.177	2.027	1.945
30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165	2.015	1.932
40	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	2.077	1.924	1.839
60	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	1.993	1.836	1.748

n_2	n_1											
	1	2	3	4	5	6	7	8	9	10	15	20
1	647.793	799.482	864.151	899.599	921.835	937.114	948.203	956.643	963.279	968.634	984.874	993.081
2	38.506	39.000	39.166	39.248	39.298	39.331	39.356	39.373	39.387	39.398	39.431	39.448
3	17.443	16.044	15.439	15.101	14.885	14.735	14.624	14.540	14.473	14.419	14.253	14.167
4	12.218	10.649	9.979	9.604	9.364	9.197	9.074	8.980	8.905	8.844	8.657	8.560
5	10.007	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681	6.619	6.428	6.329
6	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523	5.461	5.269	5.168
7	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823	4.761	4.568	4.467
8	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357	4.295	4.101	3.999
9	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026	3.964	3.769	3.667
10	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779	3.717	3.522	3.419
11	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588	3.526	3.330	3.226
12	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436	3.374	3.177	3.073
13	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312	3.250	3.053	2.948
14	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209	3.147	2.949	2.844
15	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123	3.060	2.862	2.756
16	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049	2.986	2.788	2.681
17	6.042	4.619	4.011	3.665	3.438	3.277	3.156	3.061	2.985	2.922	2.723	2.616
18	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929	2.866	2.667	2.559
19	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880	2.817	2.617	2.509
20	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837	2.774	2.573	2.464
21	5.827	4.420	3.819	3.475	3.250	3.090	2.969	2.874	2.798	2.735	2.534	2.425
22	5.786	4.383	3.783	3.440	3.215	3.055	2.934	2.839	2.763	2.700	2.498	2.389
23	5.750	4.349	3.750	3.408	3.183	3.023	2.902	2.808	2.731	2.668	2.466	2.357
24	5.717	4.319	3.721	3.379	3.155	2.995	2.874	2.779	2.703	2.640	2.437	2.327
25	5.686	4.291	3.694	3.353	3.129	2.969	2.848	2.753	2.677	2.613	2.411	2.300
26	5.659	4.265	3.670	3.329	3.105	2.945	2.824	2.729	2.653	2.590	2.387	2.276
27	5.633	4.242	3.647	3.307	3.083	2.923	2.802	2.707	2.631	2.568	2.364	2.253
28	5.610	4.221	3.626	3.286	3.063	2.903	2.782	2.687	2.611	2.547	2.344	2.232
29	5.588	4.201	3.607	3.267	3.044	2.884	2.763	2.669	2.592	2.529	2.325	2.213
30	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575	2.511	2.307	2.195
40	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452	2.388	2.182	2.068
60	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334	2.270	2.061	1.944

$\alpha = 0,01$

n_2	n_1											
	1	2	3	4	5	6	7	8	9	10	15	20
1	4052.185	4999.340	5403.534	5624.257	5763.955	5858.950	5928.334	5980.954	6022.397	6055.925	6156.974	6208.662
2	98.502	99.000	99.164	99.251	99.302	99.331	99.357	99.375	99.390	99.397	99.433	99.448
3	34.116	30.816	29.457	28.710	28.237	27.911	27.671	27.489	27.345	27.228	26.872	26.690
4	21.198	18.000	16.694	15.977	15.522	15.207	14.976	14.799	14.659	14.546	14.198	14.019
5	16.258	13.274	12.060	11.392	10.967	10.672	10.456	10.289	10.158	10.051	9.722	9.553
6	13.745	10.925	9.780	9.148	8.746	8.466	8.260	8.102	7.976	7.874	7.559	7.396
7	12.246	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	6.620	6.314	6.155
8	11.259	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	5.814	5.515	5.359
9	10.562	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	5.257	4.962	4.808
10	10.044	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	4.849	4.558	4.405
11	9.646	7.206	6.217	5.668	5.316	5.069	4.886	4.744	4.632	4.539	4.251	4.099
12	9.330	6.927	5.953	5.412	5.064	4.821	4.640	4.499	4.388	4.296	4.010	3.858
13	9.074	6.701	5.739	5.205	4.862	4.620	4.441	4.302	4.191	4.100	3.815	3.665
14	8.862	6.515	5.564	5.035	4.695	4.456	4.278	4.140	4.030	3.939	3.656	3.505
15	8.683	6.359	5.417	4.893	4.556	4.318	4.142	4.004	3.895	3.805	3.522	3.372
16	8.531	6.226	5.292	4.773	4.437	4.202	4.026	3.890	3.780	3.691	3.409	3.259
17	8.400	6.112	5.185	4.669	4.336	4.101	3.927	3.791	3.682	3.593	3.312	3.162
18	8.285	6.013	5.092	4.579	4.248	4.015	3.841	3.705	3.597	3.508	3.227	3.077
19	8.185	5.926	5.010	4.500	4.171	3.939	3.765	3.631	3.523	3.434	3.153	3.003
20	8.096	5.849	4.938	4.431	4.103	3.871	3.699	3.564	3.457	3.368	3.088	2.938
21	8.017	5.780	4.874	4.369	4.042	3.812	3.640	3.506	3.398	3.310	3.030	2.880
22	7.945	5.719	4.817	4.313	3.988	3.758	3.587	3.453	3.346	3.258	2.978	2.827
23	7.881	5.664	4.765	4.264	3.939	3.710	3.539	3.406	3.299	3.211	2.931	2.780
24	7.823	5.614	4.718	4.218	3.895	3.667	3.496	3.363	3.256	3.168	2.889	2.738
25	7.770	5.568	4.675	4.177	3.855	3.627	3.457	3.324	3.217	3.129	2.850	2.699
26	7.721	5.526	4.637	4.140	3.818	3.591	3.421	3.288	3.182	3.094	2.815	2.664
27	7.677	5.488	4.601	4.106	3.785	3.558	3.388	3.256	3.149	3.062	2.783	2.632
28	7.636	5.453	4.568	4.074	3.754	3.528	3.358	3.226	3.120	3.032	2.753	2.602
29	7.598	5.420	4.538	4.045	3.725	3.499	3.330	3.198	3.092	3.005	2.726	2.574
30	7.562	5.390	4.510	4.018	3.699	3.473	3.305	3.173	3.067	2.979	2.700	2.549
40	7.314	5.178	4.313	3.828	3.514	3.291	3.124	2.993	2.888	2.801	2.522	2.369
60	7.077	4.977	4.126	3.649	3.339	3.119	2.953	2.823	2.718	2.632	2.352	2.198

$\alpha = 0,005$

n_2	n_1											
	1	2	3	4	5	6	7	8	9	10	15	20
1	16212	19997	21614	22501	23056	23440	23715	23923	24091	24222	24632	24837
2	198.503	199.012	199.158	199.245	199.303	199.332	199.361	199.376	199.390	199.390	199.434	199.449
3	55.552	49.800	47.468	46.195	45.391	44.838	44.434	44.125	43.881	43.685	43.085	42.779
4	31.332	26.284	24.260	23.154	22.456	21.975	21.622	21.352	21.138	20.967	20.438	20.167
5	22.785	18.314	16.530	15.556	14.939	14.513	14.200	13.961	13.772	13.618	13.146	12.903
6	18.635	14.544	12.917	12.028	11.464	11.073	10.786	10.566	10.391	10.250	9.814	9.589
7	16.235	12.404	10.883	10.050	9.522	9.155	8.885	8.678	8.514	8.380	7.968	7.754
8	14.688	11.043	9.597	8.805	8.302	7.952	7.694	7.496	7.339	7.211	6.814	6.608
9	13.614	10.107	8.717	7.956	7.471	7.134	6.885	6.693	6.541	6.417	6.032	5.832
10	12.827	9.427	8.081	7.343	6.872	6.545	6.303	6.116	5.968	5.847	5.471	5.274
11	12.226	8.912	7.600	6.881	6.422	6.102	5.865	5.682	5.537	5.418	5.049	4.855
12	11.754	8.510	7.226	6.521	6.071	5.757	5.524	5.345	5.202	5.085	4.721	4.530
13	11.374	8.186	6.926	6.233	5.791	5.482	5.253	5.076	4.935	4.820	4.460	4.270
14	11.060	7.922	6.680	5.998	5.562	5.257	5.031	4.857	4.717	4.603	4.247	4.059
15	10.798	7.701	6.476	5.803	5.372	5.071	4.847	4.674	4.536	4.424	4.070	3.883
16	10.576	7.514	6.303	5.638	5.212	4.913	4.692	4.521	4.384	4.272	3.920	3.734
17	10.384	7.354	6.156	5.497	5.075	4.779	4.559	4.389	4.254	4.142	3.793	3.607
18	10.218	7.215	6.028	5.375	4.956	4.663	4.445	4.276	4.141	4.030	3.683	3.498
19	10.073	7.093	5.916	5.268	4.853	4.561	4.345	4.177	4.043	3.933	3.587	3.402
20	9.944	6.987	5.818	5.174	4.762	4.472	4.257	4.090	3.956	3.847	3.502	3.318
21	9.829	6.891	5.730	5.091	4.681	4.393	4.179	4.013	3.880	3.771	3.427	3.243
22	9.727	6.806	5.652	5.017	4.609	4.322	4.109	3.944	3.812	3.703	3.360	3.176
23	9.635	6.730	5.582	4.950	4.544	4.259	4.047	3.882	3.750	3.642	3.300	3.116
24	9.551	6.661	5.519	4.890	4.486	4.202	3.991	3.826	3.695	3.587	3.246	3.062
25	9.475	6.598	5.462	4.835	4.433	4.150	3.939	3.776	3.645	3.537	3.196	3.013
26	9.406	6.541	5.409	4.785	4.384	4.103	3.893	3.730	3.599	3.492	3.151	2.968
27	9.342	6.489	5.361	4.740	4.340	4.059	3.850	3.687	3.557	3.450	3.110	2.927
28	9.284	6.440	5.317	4.698	4.300	4.020	3.811	3.649	3.519	3.412	3.073	2.890
29	9.230	6.396	5.276	4.659	4.262	3.983	3.775	3.613	3.483	3.376	3.038	2.855
30	9.180	6.355	5.239	4.623	4.228	3.949	3.742	3.580	3.451	3.344	3.006	2.823
40	8.828	6.066	4.976	4.374	3.986	3.713	3.509	3.350	3.222	3.117	2.781	2.598
60	8.495	5.795	4.729	4.140	3.760	3.492	3.291	3.134	3.008	2.904	2.570	2.387

x	p									
	1	2	3	4	5	6	7	8	9	10
1	0.6321	0.2642	0.0803	0.0190	0.0037	0.0006	0.0001	0.0000	0.0000	0.0000
2	0.8647	0.5940	0.3233	0.1429	0.0527	0.0166	0.0045	0.0011	0.0002	0.0000
3	0.9502	0.8009	0.5768	0.3528	0.1847	0.0839	0.0335	0.0119	0.0038	0.0011
4	0.9817	0.9084	0.7619	0.5665	0.3712	0.2149	0.1107	0.0511	0.0214	0.0081
5	0.9933	0.9596	0.8753	0.7350	0.5595	0.3840	0.2378	0.1334	0.0681	0.0318
6	0.9975	0.9826	0.9380	0.8488	0.7149	0.5543	0.3937	0.2560	0.1528	0.0839
7	0.9991	0.9927	0.9704	0.9182	0.8270	0.6993	0.5503	0.4013	0.2709	0.1695
8	0.9997	0.9970	0.9862	0.9576	0.9004	0.8088	0.6866	0.5470	0.4075	0.2834
9	0.9999	0.9988	0.9938	0.9788	0.9450	0.8843	0.7932	0.6761	0.5443	0.4126
10	1.0000	0.9995	0.9972	0.9897	0.9707	0.9329	0.8699	0.7798	0.6672	0.5421
11	1.0000	0.9998	0.9988	0.9951	0.9849	0.9625	0.9214	0.8568	0.7680	0.6595
12	1.0000	0.9999	0.9995	0.9977	0.9924	0.9797	0.9542	0.9105	0.8450	0.7576
13	1.0000	1.0000	0.9998	0.9989	0.9963	0.9893	0.9741	0.9460	0.9002	0.8342
14	1.0000	1.0000	0.9999	0.9995	0.9982	0.9945	0.9858	0.9684	0.9379	0.8906
15	1.0000	1.0000	1.0000	0.9998	0.9991	0.9972	0.9924	0.9820	0.9626	0.9301