

# TABLAS ESTADÍSTICAS

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**Tabla 1. Factores para Gráficas de Control**

<b>Factores Para Gráficos de Control por Variables</b>													
n	<b>Promedios</b>		<b>Intervalos</b>						<b>Desviaciones Normales</b>				
	A1	A2	d2	d3	D1	D2	D3	D4	c2	B1	B2	B3	B4
2	3.76	1.88	1.13	0.89	0	3.69	0	3.27	0.56	0	1.84	0	1.27
3	2.39	1.02	1.69	0.88	0	4.36	0	2.57	0.72	0	1.86	0	2.57
4	1.88	0.73	2.06	0.86	0	4.70	0	2.28	0.80	0	1.81	0	2.27
5	1.60	0.58	2.33	0.85	0	4.92	0	2.111	0.84	0	1.76	0	2.09
6	1.41	0.48	2.53	0.85	0	5.08	0	2.00	0.87	0.03	1.71	0.03	1.97
7	1.28	0.42	2.70	0.83	0.2	5.20	0.08	1.92	0.89	0.10	1.67	0.12	1.88
8	1.17	0.37	2.85	0.82	0.39	5.31	0.14	1.86	0.90	0.17	1.64	0.18	1.81
9	1.09	0.34	2.97	0.81	0.55	5.39	0.18	1.82	0.91	0.22	1.61	0.24	1.76
10	1.03	0.31	3.08	0.80	0.69	5.47	0.22	1.78	0.92	0.26	1.58	0.28	1.72
11	0.97	0.29	3.17	0.79	0.81	5.53	0.26	1.74	0.93	0.30	1.56	0.32	1.68
12	0.92	0.27	3.26	0.78	0.92	5.59	0.28	1.72	0.94	0.33	1.54	0.35	1.62
13	0.88	0.25	3.34	0.77	1.03	5.65	0.33	1.69	0.94	0.36	1.52	0.38	1.65
14	0.85	0.23	3.41	0.76	1.12	5.69	0.31	1.67	0.95	0.38	1.51	0.41	1.59
15	0.82	0.22	3.47	0.75	1.21	5.74	0.35	1.65	0.95	0.41	1.49	0.43	1.57
16	0.79	0.21	3.53	0.75	1.28	5.78	0.36	1.64	0.95	0.43	1.48	0.45	1.55
17	0.76	0.20	3.59	0.74	1.36	5.82	0.38	1.62	0.96	0.44	1.46	0.47	1.53
18	0.74	0.19	3.64	0.74	1.43	5.85	0.39	1.61	0.96	0.46	1.45	0.48	1.52
19	0.72	0.19	3.69	0.73	1.49	5.89	0.40	1.60	0.96	0.48	1.44	0.50	1.50
20	0.70	0.18	3.73	0.73	1.55	5.92	0.41	1.59	0.96	0.49	1.43	0.51	1.49
21	0.68	0.17	3.78	0.72	1.61	5.95	0.42	1.57	0.96	0.50	1.42	0.52	1.48
22	0.66	0.17	3.82	0.72	1.66	5.98	0.43	1.57	0.97	0.52	1.41	0.53	1.47
23	0.65	0.16	3.86	0.72	1.71	6.00	0.44	1.56	0.97	0.53	1.41	0.54	1.45
24	0.63	0.16	3.90	0.71	1.76	6.03	0.45	1.55	0.97	0.54	1.40	0.55	1.44
25	0.62	0.15	3.93	0.71	1.80	6.06	0.46	1.54	0.97	0.55	1.39	0.56	1.43
+ de 25	$3/\sqrt{n}$	--	--	--	--	--	--	--	1	$1-3/\sqrt{2n}$	$1+3/\sqrt{2n}$	$1-3/\sqrt{2n}$	$1+3/\sqrt{2n}$

**Tabla 2. Áreas bajo la curva normal**

<b>z</b>	.00	.01	.02	.03	.04	.05	.06	.07	0.08	0.09
-3.4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0002
-3.3	.0005	.0005	.0005	.0004	.0004	.0004	.0004	.0004	.0004	.0003
-3.2	.0007	.0007	.0006	.0006	.0006	.0006	.0006	.0005	.0005	.0005
-3.1	.0010	.0009	.0009	.0009	.0008	.0008	.0008	.0008	.0007	.0007
-3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.0010
-2.9	.0019	.0018	.0017	.0017	.0016	.0016	.0015	.0015	.0014	.0014
-2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
-2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
-2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
-2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
-2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
-2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
-2.2	.0139	.0136	.0132	.0129	0.125	0.122	.0119	.0116	.0113	.0110
-2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
-2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
-1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
-1.8	.0359	.0352	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294
-1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	0.375	.0367
-1.6	.0548	.0537	.0526	.0516	.0505	.495	.0485	.0475	.0465	.0455
-1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
-1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0722	.0708	.0694	.0681
-1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
-1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
-1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
-1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
-0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
-0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
-0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148
-0.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
-0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
-0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
-0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
-0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
-0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
-0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641

**Tabla 2. (Continuación) Áreas bajo la curva normal**

<b>z</b>	.00	.01	.02	.03	.04	.05	.06	.07	0.08	0.09
0.0	.5000	.5040	.5080	.5120	.5160	.5199	.5239	.5279	.5319	.5359
0.1	.5398	.5438	.5478	.5517	.5557	.5596	.5636	.5675	.5714	.5753
0.2	.5793	.5832	.5871	.5910	.5948	.5987	.6026	.6065	.6103	.6141
0.3	.6179	.6217	.6255	.6293	.6331	.6368	.6406	.6443	.6480	.6517
0.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6808	.6844	.6879
0.5	.6915	.6950	.6985	.7019	.7054	.7088	.7123	.7157	.7190	.7224
0.6	.7257	.7291	.7324	.7357	.7389	.7422	.7454	.7486	.7517	.7549
0.7	.7580	.7611	.7642	.7673	.7704	.7734	.7764	.7794	.7823	.7852
0.8	.7881	.7910	.7939	.7967	.7995	.8023	.8051	.8078	.8106	.8133
0.9	.8159	.8186	.8212	.8238	.8264	.8289	.8315	.8340	.8365	.8389
1.0	.8413	.8438	.8461	.8485	.8508	.8531	.8554	.8577	.8599	.8621
1.1	.8643	.8665	.8686	.8708	.8729	.8749	.8770	.8790	.8810	.8830
1.2	.8849	.8869	.8888	.8907	.8925	.8944	.8962	.8980	.8997	.9015
1.3	.9032	.9049	.9066	.9082	.9099	.9115	.9131	.9147	.9162	.9177
1.4	.9192	.9207	.9222	.9236	.9251	.9265	.9278	.9292	.9306	.9319
1.5	.9332	.9345	.9357	.9370	.9382	.9394	.9406	.9418	.9429	.9441
1.6	.9452	.9463	.9474	.9484	.9495	.9505	.9515	.9525	.9535	.9545
1.7	.9554	.9564	.9573	.9582	.9591	.9599	.9608	.9616	.9625	.9633
1.8	.9641	.9649	.9656	.9664	.9671	.9678	.9686	.9693	.9699	.9706
1.9	.9713	.9719	.9726	.9732	.9738	.9744	.9750	.9756	.9761	.9767
2.0	.9772	.9778	.9788	.9788	.9793	.9798	.9803	.9808	.9812	.9817
2.1	.9821	.9826	.9834	.9834	.9838	.9842	.9846	.9850	.9854	.9857
2.2	.9861	.9864	.9871	.9871	.9875	.9878	.9881	.9884	.9887	.9890
2.3	.9893	.9896	.9901	.9901	.9904	.9906	.9909	.9911	.9913	.9916
2.4	.9918	.9920	.9925	.9925	.9927	.9929	.9931	.9932	.9934	.9936
2.5	.9938	.9940	.9941	.9943	.9945	.9946	.9948	.9949	.9951	.9952
2.6	.9953	.9955	.9956	.9957	.9959	.9960	.9961	.9962	.9963	.9964
2.7	.9965	.9966	.9967	.9968	.9969	.9970	.9971	.9972	.9973	.9974
2.8	.9974	.9975	.9976	.9977	.9977	.9978	.9979	.9979	.9980	.9981
2.9	.9981	.9982	.9982	.9983	.9984	.9984	.9985	.9985	.9985	.9986
3.0	.9987	.9987	.9987	.9988	.9988	.9989	.9989	.9989	.9990	.9990
3.1	.9990	.9991	.9991	.9991	.9992	.9992	.9992	.9992	.9993	.9993
3.2	.9993	.9993	.9994	.9994	.9994	.9994	.9994	.9995	.9995	.9995
3.3	.9995	.9995	.9995	.9996	.9996	.9996	.9996	.9996	.9996	.9997
3.4	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9998

**Tabla 3. Valores críticos de la distribución Chi cuadrada**

v	X									
	.995	.99	.98	.975	.95	.90	.80	.75	.70	.50
1	.04393	.03157	.03628	0.3982	0.0393	.0158	0.642	0.102	0.148	0.455
2	.0100	.0201	.0404	.0506	0.103	0.211	0.446	0.575	0.713	1.386
3	.0717	0.115	0.185	0.216	0.352	0.584	1.005	1.213	1.424	2.366
4	0.207	0.297	0.429	0.484	0.711	1.064	1.649	1.923	2.195	3.357
5	.0412	0.554	0.752	0.831	1.145	1.610	2.343	2.675	3.000	4.351
6	0.676	0.872	1.134	1.237	1.635	2.204	3.070	3.455	3.828	5.348
7	0.989	1.239	1.564	1.690	2.167	2.833	3.822	4.255	4.671	6.346
8	1.344	1.646	.2032	2.180	2.733	3.490	4.594	5.071	5.527	7.344
9	1.735	2.088	2.532	2.700	3.325	4.168	5.380	5.899	6.393	8.343
10	2.156	2.558	3.059	3.247	3.940	4.865	6.179	6.737	7.267	9.342
11	2.603	3.053	3.609	3.816	4.575	5.578	6.989	7.584	8.148	10.341
12	3.074	3.571	4.178	4.404	5.226	6.304	7.807	8.438	9.034	11.340
13	3.565	4.107	4.765	5.009	5.892	7.042	8.634	9.299	9.926	12.340
14	4.075	4.660	5.368	5.629	6.571	7.790	9.467	10.165	10.821	13.339
15	4.601	5.229	5.985	6.262	7.261	8.547	10.307	11.036	11.721	14.339
16	5.142	5.812	6.614	6.908	7.962	9.312	11.152	11.912	12.624	15.338
17	5.697	6.408	7.255	7.564	8.672	10.085	12.002	12.792	13.531	16.338
18	6.265	7.015	7.906	8.231	9.390	10.865	12.857	13.675	14.440	17.338
19	6.844	7.633	8.567	8.907	10.117	11.651	13.716	14.562	15.352	18.338
20	7.434	8.260	9.237	9.591	10.851	12.443	14.578	15.452	16.266	19.337
21	8.034	8.897	9.915	10.283	11.591	13.240	15.445	16.344	17.182	20.337
22	8.643	9.542	10.600	10.982	12.338	14.041	16.314	17.240	18.101	21.337
23	9.260	10.196	11.293	11.688	13.091	14.848	17.187	18.137	19.021	22.337
24	9.886	10.856	11.992	12.401	13.848	15.659	18.062	19.037	19.943	23.337
25	10.520	11.524	12.697	13.120	14.611	16.473	18.940	19.939	20.867	24.337
26	11.160	12.198	13.409	13.844	15.379	17.292	19.820	20.843	21.792	25.336
27	11.808	12.879	14.125	14.573	16.151	18.114	20.703	21.749	22.719	26.336
28	12.461	13.565	14.847	15.308	16.928	18.939	21.588	22.657	23.647	27.336
29	13.121	14.256	15.574	16.047	17.708	19.768	22.475	23.567	24.577	28.336
30	13.787	14.953	16.306	16.791	18.493	20.599	23.364	24.478	25.508	29.336

**Tabla 3. (Continuación) Valores críticos de la distribución Chi cuadrada**

v	X									
	.30	.25	.20	.10	.05	.025	.02	.01	.005	.001
1	1.074	1.323	.1642	2.706	3.841	5.024	5.412	6.635	7.879	10.827
2	2.408	2.773	3.219	4.605	5.991	7.378	7.824	9.210	10.597	13.815
3	3.665	4.108	4.642	6.251	7.815	9.348	9.837	11.345	12.838	16.268
4	4.878	5.385	5.989	7.779	9.488	11.143	11.668	13.277	14.860	18.465
5	6.064	6.626	7.289	9.236	11.070	12.832	13.388	15.086	16.750	20.517
6	7.231	7.841	8.558	10.645	12.592	14.449	15.033	16.812	18.548	22.457
7	8.383	9.037	9.803	12.017	14.067	16.013	16.622	18.475	20.278	24.322
8	9.524	10.219	11.030	13.362	15.507	17.535	18.168	20.090	21.955	26.125
9	10.656	11.389	12.242	14.684	16.919	19.023	19.679	21.666	23.589	27.877
10	11.781	12.549	13.442	15.987	18.307	20.483	21.161	23.209	25.188	29.588
11	12.899	13.701	14.631	17.275	19.675	21.920	22.618	24.725	26.757	31.264
12	14.011	14.845	15.812	18,549	21.026	23.337	24.054	26.217	28.300	32.909
13	15.119	15.984	16.985	19.812	22.362	24.736	25.472	27.688	29.819	34.528
14	16.222	17.117	18.151	21.064	23.685	26.119	26.873	29.141	31.319	36.123
15	17.322	18.245	19.311	22.307	24.996	27.488	28.259	30.578	32.801	37.697
16	18.418	19.369	20.465	23.542	26.296	28.845	29.633	32.000	34.267	39.252
17	19.511	20.489	21.615	24.769	27.587	30.191	30.955	33.409	35.718	40.790
18	20.601	21.605	22.760	25.989	28.869	31.526	32.346	34.805	37.156	42.312
19	21.689	22.718	23.900	27.204	30.144	32.852	33.687	36.191	38.582	43.820
20	22.775	23.828	25.038	28.412	31.410	34.170	35.020	37.566	39.997	45.315
21	23.858	24.935	26.171	29.615	32.671	35.479	36.343	38.932	41.401	46.797
22	24.939	26.039	27.301	30.813	33.924	36.781	37.659	40.289	42.796	48.268
23	26.018	27.141	28.429	32.007	35.172	38.076	38.968	41.638	44.181	49.728
24	27.096	28.241	29.553	33.196	36.415	39.364	40.270	42.980	45.558	51.179
25	28.172	29.339	30.675	34.382	37.652	40.646	41.566	44.314	46.928	52.620
26	29.246	30.434	31.795	35.563	38.885	41.932	42.856	45.642	48.290	54.052
27	30.319	31.528	32.912	36.741	40.113	43.194	44.140	46.963	49.645	55.476
28	31.391	32.620	34.027	37.916	41.337	44.461	45.419	48.278	50.993	56.893
29	32.461	33.711	35.139	39.087	42.557	45.722	46.693	49.588	52.336	58.302
30	33.530	34.800	36.250	40.256	43.773	46.979	47.962	50.892	53.672	59.703

**Tabla 4. Valores críticos de la distribución F 0.05(v1, v2)**

$V_2$	$V_1$								
	1	2	3	4	5	6	7	8	9
1	161.4	199.5	215.7	224.6	230.2	234.3	236.8	238.9	240.5
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38
3	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71
14	4.60	3.71	3.34	3.11	2.96	2.85	2.76	2.70	2.65
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34
23	4.28	3.42	3.03	2.8	2.64	2.53	2.44	2.37	2.32
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30
25	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12
60	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04
120	3.92	3.07	2.68	2.45	2.29	2.17	2.09	2.02	1.96
$\alpha$	3.84	3.00	2.60	2.37	2.21	2.10	2.01	1.94	1.88

\*Reproducida de la tabla 18 de Biométrica Tables for Statisticians, Vol1, con permiso de E.S. Pearson y de los fiduciarios de Biometrika



**Tabla 4. (Continuación) Valores críticos de la distribución F  
F 0.05(v1, v2)**

$V_2$	$V_1$									
	10	12	15	20	24	30	40	60	120	$\alpha$
1	241.9	243.9	245.9	248.0	249.1	250.1	251.1	252.2	253.3	254.3
2	19.40	19.41	19.43	19.45	19.45	19.46	19.47	19.48	19.49	19.50
3	8.79	8.74	8.70	8.66	8.64	8.62	8.59	8.57	8.55	8.53
4	5.96	5.91	5.86	5.80	5.77	5.75	5.72	5.69	5.66	5.63
5	4.74	4.68	4.62	4.56	4.53	4.50	4.46	4.43	4.40	4.36
6	4.06	4.00	3.94	3.87	3.84	3.81	3.77	3.74	3.70	3.67
7	3.64	3.57	3.51	3.44	3.41	3.38	3.34	3.30	3.27	3.23
8	3.35	3.28	3.22	3.15	3.12	3.08	3.04	3.01	2.97	2.93
9	3.14	3.07	3.01	2.94	2.90	2.86	2.83	2.79	2.76	2.74
10	2.98	2.91	2.85	2.77	2.74	2.70	2.66	2.62	2.58	2.54
11	2.85	2.79	2.72	2.65	2.61	2.57	2.53	2.49	2.45	2.40
12	2.75	2.69	2.62	2.54	2.51	2.47	2.43	2.38	2.34	2.30
13	2.67	2.60	2.53	2.46	2.42	2.38	2.34	2.30	2.25	2.21
14	2.60	2.53	2.46	2.39	2.35	2.31	2.27	2.22	2.18	2.13
15	2.54	2.48	2.40	2.33	2.29	2.25	2.20	2.16	2.11	2.07
16	2.49	2.42	2.35	2.28	2.24	2.19	2.15	2.11	2.06	2.01
17	2.45	2.38	2.31	2.23	2.19	2.15	2.10	2.06	2.01	1.96
18	2.41	2.34	2.27	2.19	2.15	2.11	2.06	2.02	1.97	1.92
19	2.38	2.31	2.23	2.16	2.11	2.07	2.03	1.98	1.93	1.88
20	2.35	2.28	2.20	2.12	2.08	2.04	1.99	1.95	1.90	1.84
21	2.32	2.25	2.18	2.10	2.05	2.01	1.96	1.92	1.87	1.81
22	2.30	2.23	2.15	2.07	2.03	1.98	1.94	1.89	1.84	1.78
23	2.27	2.20	2.13	2.05	2.01	1.96	1.91	1.86	1.81	1.76
24	2.25	2.18	2.11	2.03	1.98	1.94	1.89	1.84	1.79	1.73
25	2.24	2.16	2.09	2.01	1.96	1.92	1.87	1.82	1.77	1.71
26	2.22	2.15	2.07	1.99	1.95	1.90	1.85	1.80	1.75	1.69
27	2.20	2.13	2.06	1.97	1.93	1.88	1.84	1.79	1.73	1.67
28	2.19	2.12	2.04	1.96	1.91	1.87	1.82	1.77	1.71	1.65
29	2.18	2.10	2.03	1.94	1.90	1.85	1.81	1.75	1.70	1.64
30	2.16	2.09	2.01	1.93	1.89	1.84	1.79	1.74	1.68	1.62
40	2.08	2.00	1.92	1.84	1.79	1.74	1.69	1.64	1.58	1.51
60	1.99	1.95	1.84	1.75	1.70	1.65	1.59	1.53	1.47	1.39
120	1.91	1.83	1.75	1.66	1.61	1.55	1.50	1.43	1.35	1.25
$\alpha$	1.83	1.75	1.67	1.57	1.52	1.46	1.39	1.32	1.22	1.00

**Tabla 5. Valores críticos de la distribución F 0.01( $v_1, v_2$ )**

$V_2$	$V_1$								
	1	2	3	4	5	6	7	8	9
1	4052	4999.5	5403	5625	5764	5859	5928	5981	6022
2	98.50	99.00	99.17	99.25	99.30	99.33	99.36	99.37	99.39
3	34.12	30.82	29.46	28.71	28.24	27.91	27.67	27.49	27.35
4	21.20	18.00	16.69	15.98	15.52	15.21	14.98	14.80	14.66
5	16.26	13.27	12.06	11.39	10.97	10.67	10.46	10.29	10.16
6	13.75	10.92	9.78	9.15	8.75	8.47	8.26	8.10	7.98
7	12.25	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72
8	11.26	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.91
9	10.56	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35
10	10.04	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.94
11	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63
12	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.39
13	9.07	6.70	5.74	5.21	4.86	4.62	4.44	4.30	4.19
14	8.86	6.51	5.56	5.04	4.69	4.46	4.28	4.14	4.03
15	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89
16	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78
17	8.40	6.11	5.18	4.67	4.34	4.10	3.93	3.79	3.68
18	8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.60
19	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52
20	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46
21	8.02	5.78	4.87	4.37	4.04	3.81	3.64	3.51	3.40
22	7.95	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.35
23	7.88	5.66	4.76	4.26	3.94	3.71	3.54	3.41	3.30
24	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26
25	7.77	5.57	4.68	4.18	3.85	3.63	3.46	3.32	3.22
26	7.72	5.53	4.64	4.14	3.82	3.59	3.42	3.29	3.18
27	7.68	5.49	4.60	4.11	3.78	3.56	3.39	3.26	3.15
28	7.64	5.45	4.57	4.07	3.75	3.53	3.36	3.23	3.12
29	7.60	5.42	4.54	4.04	3.73	3.50	3.33	3.20	3.09
30	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	3.07
40	7.31	5.18	4.31	3.83	3.51	3.29	3.12	2.99	2.89
60	7.08	4.98	4.13	3.65	3.34	3.12	2.95	2.82	2.72
120	6.85	4.79	3.95	3.48	3.17	2.96	2.79	2.66	2.56
$x$	6.63	4.61	3.78	3.32	3.02	2.80	2.64	2.51	2.41

**Tabla 5. (Continuación) Valores críticos de la distribución  $F$   
 $F_{0.01}(v_1, v_2)$**

$V_2$	$V_1$									
	10	12	15	20	24	30	40	60	120	$\alpha$
1	6056	6106	6157	6209	6235	6261	6287	6313	6339	6366
2	99.40	99.42	99.43	99.45	99.46	99.47	99.47	99.48	99.49	99.50
3	27.23	27.05	26.87	26.69	26.60	26.50	26.41	26.32	26.22	26.13
4	14.55	14.37	14.20	14.02	13.93	13.84	13.75	13.65	13.56	13.46
5	10.05	9.89	9.72	9.55	9.47	9.38	9.29	9.20	9.11	9.02
6	7.87	7.72	7.56	7.40	7.31	7.23	7.14	7.06	6.97	6.88
7	6.62	6.47	6.31	6.16	6.07	5.99	5.91	5.82	5.74	5.65
8	5.81	5.67	5.52	5.36	5.28	5.20	5.12	5.03	4.95	4.86
9	5.26	5.11	4.96	4.81	4.73	4.65	4.57	4.48	4.40	4.31
10	4.85	4.71	4.56	4.41	4.33	4.25	4.17	4.08	4.00	3.91
11	4.54	4.40	4.25	4.10	4.02	3.94	3.86	3.78	3.69	3.60
12	4.30	4.16	4.01	3.86	3.78	3.70	3.62	3.54	3.45	3.36
13	4.10	3.96	3.82	3.66	3.59	3.51	3.43	3.34	3.25	3.17
14	3.94	3.80	3.66	3.51	3.43	3.35	3.27	3.18	3.09	3.00
15	3.80	3.67	3.52	3.37	3.29	3.21	3.13	3.05	2.96	2.87
16	3.69	3.55	3.41	3.26	3.18	3.10	3.02	2.93	2.84	2.75
17	3.59	3.46	3.31	3.16	3.08	3.00	2.92	2.83	2.75	2.65
18	3.51	3.37	3.23	3.08	3.00	2.92	2.84	2.75	2.66	2.57
19	3.43	3.30	3.15	3.00	2.92	2.84	2.76	2.67	2.58	2.49
20	3.37	3.23	3.09	2.94	2.86	2.78	2.69	2.61	2.52	2.43
21	3.31	3.17	3.03	2.88	2.80	2.72	2.64	2.55	2.46	2.37
22	3.26	3.12	2.98	2.83	2.75	2.67	2.58	2.50	2.40	2.31
23	3.21	3.07	2.93	2.78	2.70	2.62	2.54	2.45	2.35	2.26
24	3.17	3.03	2.89	2.74	2.66	2.58	2.49	2.40	2.31	2.22
25	3.13	2.99	2.85	2.70	2.62	2.54	2.45	2.36	2.27	2.17
26	3.09	2.96	2.81	2.66	2.58	2.50	2.42	2.33	2.23	2.13
27	3.06	2.93	2.78	2.63	2.55	2.47	2.38	2.29	2.20	2.10
28	3.03	2.90	2.75	2.60	2.52	2.44	2.35	2.26	2.17	2.06
29	3.00	2.87	2.73	2.57	2.49	2.41	2.33	2.23	2.14	2.03
30	2.98	2.84	2.70	2.55	2.47	2.39	2.30	2.21	2.11	2.01
40	2.80	2.66	2.52	2.37	2.29	2.20	2.11	2.02	1.92	1.80
60	2.63	2.50	2.35	2.20	2.12	2.03	1.94	1.84	1.73	1.60
120	2.47	2.34	2.19	2.03	1.95	1.86	1.76	1.66	1.53	1.38
$\alpha$	2.32	2.18	2.04	1.88	1.79	1.70	1.59	1.47	1.32	1.00

**Tabla 6. Valores críticos de  $D$  en la prueba de Bondad de ajuste de Kolmogorov-Smirnov<sup>2</sup>**

Tamaño de la muestra ( $n$ )	Nivel de significancia para $D = \text{máximo }  F(x) - S_n(x) $				
	.20	.15	.10	.05	.01
1	.900	.925	.950	.975	.995
2	.684	.726	.776	.842	.929
3	.565	.597	.642	.708	.828
4	.494	.525	.564	.624	.733
5	.446	.474	.510	.565	.669
6	.410	.436	.470	.521	.618
7	.381	.405	.438	.486	.577
8	.358	.381	.411	.457	.543
9	.339	.360	.388	.432	.514
10	.322	.342	.368	.410	.490
11	.307	.326	.352	.391	.468
12	.295	.313	.338	.375	.450
13	.284	.302	.325	.361	.433
14	.274	.292	.314	.349	.418
15	.266	.283	.304	.338	.404
16	.258	.274	.295	.328	.392
17	.250	.266	.286	.318	.381
18	.244	.259	.278	.309	.371
19	.237	.252	.272	.301	.363
20	.231	.246	.264	.294	.356
25	.21	.22	.24	.27	.32
30	.19	.20	.22	.24	.29
35	.18	.19	.21	.23	.27
Más de 35	$\frac{1.07}{\sqrt{n}}$	$\frac{1.14}{\sqrt{n}}$	$\frac{1.22}{\sqrt{n}}$	$\frac{1.36}{\sqrt{n}}$	$\frac{1.63}{\sqrt{n}}$

<sup>1</sup> Adaptado de F. J. Massey, Jr., "The Kolmogorov-Smirnov test for goodness of fit", Jour, Amer. Stat. Assn, Vol. 46,1951,pp.68-78. Con permiso del autor y los editors.

<sup>2</sup> Los valores  $D$  proporcionados en la tabla son valores críticos asociados con valores seleccionados de  $n$ . Cualquier valor  $D$  el cual es mayor o igual que el valor tabulado es significativo en el nivel de significancia indicado.

**TABLA 7. Distribución de Poisson acumulada**

LANDA	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.05	0.950	0.999																		
0.10	0.905	0.995	0.999																	
0.15	0.861	0.990	0.999																	
0.20	0.819	0.982	0.999																	
0.25	0.779	0.973	0.998	0.999																
0.30	0.741	0.963	0.996	0.999																
0.35	0.705	0.951	0.994	0.999																
0.40	0.670	0.938	0.992	0.999																
0.45	0.638	0.924	0.989	0.998	0.999															
0.50	0.607	0.910	0.986	0.998	0.999															
0.55	0.577	0.894	0.981	0.997	0.999															
0.60	0.549	0.878	0.977	0.997	0.999															
0.65	0.522	0.861	0.972	0.996	0.999															
0.70	0.497	0.844	0.966	0.994	0.999															
0.75	0.472	0.827	0.959	0.993	0.999															
0.80	0.449	0.809	0.953	0.991	0.998	0.999														
0.85	0.427	0.791	0.945	0.989	0.998	0.999														
0.90	0.407	0.772	0.937	0.987	0.998	0.999														
0.95	0.387	0.754	0.929	0.984	0.997	0.999														
1.00	0.368	0.736	0.920	0.981	0.996	0.999														
1.05	0.350	0.717	0.910	0.978	0.995	0.999														
1.10	0.333	0.699	0.900	0.974	0.995	0.999														
1.15	0.317	0.681	0.890	0.970	0.993	0.999														
1.20	0.301	0.663	0.879	0.966	0.992	0.998	0.999													
1.25	0.286	0.645	0.868	0.962	0.991	0.998	0.999													
1.30	0.273	0.627	0.857	0.957	0.989	0.998	0.999													
1.35	0.259	0.609	0.845	0.952	0.988	0.997	0.999													
1.40	0.247	0.592	0.833	0.946	0.986	0.997	0.999													
1.45	0.235	0.575	0.821	0.940	0.984	0.996	0.999													
1.50	0.223	0.558	0.809	0.934	0.981	0.995	0.999													
1.55	0.212	0.541	0.796	0.928	0.979	0.995	0.999													
1.60	0.202	0.525	0.783	0.921	0.976	0.994	0.999													
1.65	0.192	0.509	0.770	0.914	0.973	0.993	0.998	0.999												
1.70	0.183	0.493	0.757	0.907	0.970	0.992	0.998	0.999												
1.75	0.174	0.478	0.744	0.899	0.967	0.991	0.998	0.999												
1.80	0.165	0.462	0.731	0.891	0.963	0.990	0.997	0.999												
1.85	0.157	0.448	0.717	0.883	0.960	0.988	0.997	0.999												
1.90	0.150	0.434	0.704	0.875	0.956	0.987	0.997	0.999												
1.95	0.142	0.420	0.690	0.866	0.952	0.985	0.996	0.999												
2.00	0.135	0.406	0.677	0.857	0.947	0.983	0.995	0.999												
2.05	0.129	0.393	0.663	0.848	0.943	0.982	0.995	0.999												
2.10	0.122	0.380	0.650	0.839	0.938	0.980	0.994	0.999												
2.15	0.116	0.367	0.636	0.829	0.933	0.977	0.993	0.998	0.999											
2.20	0.111	0.355	0.623	0.819	0.928	0.975	0.992	0.998	0.999											
2.25	0.105	0.342	0.609	0.809	0.922	0.973	0.992	0.998	0.999											
2.30	0.100	0.331	0.596	0.799	0.916	0.970	0.991	0.997	0.999											
2.35	0.095	0.319	0.583	0.789	0.910	0.967	0.990	0.997	0.999											
2.40	0.091	0.308	0.570	0.779	0.904	0.964	0.988	0.997	0.999											
2.45	0.086	0.286	0.557	0.768	0.898	0.961	0.987	0.996	0.999											
2.50	0.082	0.287	0.544	0.758	0.891	0.958	0.986	0.996	0.999											
2.55	0.078	0.277	0.531	0.747	0.884	0.954	0.984	0.995	0.999											
2.60	0.074	0.267	0.518	0.736	0.877	0.951	0.983	0.995	0.999											
2.65	0.071	0.258	0.506	0.725	0.870	0.947	0.981	0.994	0.998	0.999										
2.70	0.067	0.249	0.494	0.714	0.863	0.943	0.979	0.993	0.998	0.999										

LANDA	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
2.75	0.064	0.240	0.481	0.703	0.855	0.939	0.978	0.993	0.998	0.999										
2.80	0.061	0.231	0.469	0.692	0.848	0.935	0.976	0.992	0.998	0.999										
2.85	0.058	0.223	0.458	0.681	0.840	0.930	0.973	0.991	0.997	0.999										
2.90	0.055	0.215	0.446	0.670	0.832	0.826	0.971	0.999	0.997	0.999										
2.95	0.052	0.207	0.434	0.658	0.824	0.921	0.969	0.989	0.997	0.999										
3.00	0.050	0.199	0.423	0.647	0.815	0.916	0.966	0.988	0.996	0.999										
3.05	0.047	0.192	0.415	0.636	0.807	0.911	0.964	0.987	0.996	0.999										
3.10	0.045	0.185	0.401	0.625	0.798	0.906	0.961	0.988	0.995	0.999										
3.15	0.043	0.178	0.390	0.614	0.789	0.900	0.958	0.984	0.995	0.998	0.999									
3.20	0.041	0.171	0.380	0.603	0.781	0.895	0.955	0.983	0.994	0.998	0.999									
3.25	0.039	0.165	0.370	0.591	0.772	0.889	0.952	0.982	0.994	0.998	0.999									
3.30	0.037	0.159	0.359	0.580	0.763	0.883	0.949	0.980	0.993	0.998	0.999									
3.35	0.035	0.153	0.349	0.569	0.753	0.877	0.946	0.979	0.992	0.998	0.999									
3.40	0.033	0.147	0.340	0.559	0.744	0.871	0.942	0.977	0.992	0.997	0.999									
3.45	0.032	0.141	0.330	0.547	0.735	0.864	0.934	0.975	0.991	0.997	0.999									
3.50	0.030	0.136	0.321	0.537	0.725	0.858	0.935	0.973	0.990	0.997	0.999									
3.55	0.029	0.131	0.312	0.526	0.716	0.851	0.931	0.971	0.989	0.996	0.999									
3.60	0.027	0.126	0.303	0.515	0.706	0.844	0.927	0.969	0.988	0.996	0.999									
3.65	0.026	0.121	0.294	0.505	0.697	0.837	0.922	0.967	0.987	0.996	0.999									
3.70	0.025	0.116	0.285	0.494	0.687	0.830	0.918	0.965	0.988	0.995	0.988	0.999								
3.75	0.024	0.112	0.277	0.484	0.677	0.823	0.914	0.962	0.985	0.995	0.998	0.999								
3.80	0.022	0.107	0.267	0.473	0.668	0.816	0.909	0.960	0.983	0.994	0.998	0.999								
3.85	0.021	0.103	0.261	0.463	0.658	0.808	0.904	0.957	0.983	0.994	0.998	0.999								
3.90	0.020	0.099	0.253	0.453	0.648	0.800	0.899	0.955	0.981	0.993	0.998	0.999								
3.95	0.019	0.095	0.246	0.443	0.639	0.793	0.894	0.952	0.980	0.993	0.997	0.999								
4.00	0.018	0.092	0.238	0.433	0.629	0.785	0.889	0.949	0.979	0.992	0.997	0.999								
4.05	0.017	0.088	0.231	0.424	0.619	0.777	0.884	0.946	0.977	0.991	0.997	0.999								
4.10	0.017	0.084	0.224	0.414	0.609	0.769	0.879	0.943	0.975	0.990	0.997	0.999								
4.15	0.015	0.081	0.217	0.405	0.600	0.761	0.873	0.939	0.974	0.990	0.996	0.999								
4.20	0.015	0.080	0.210	0.395	0.590	0.753	0.867	0.936	0.972	0.989	0.996	0.999								
4.25	0.014	0.075	0.204	0.386	0.580	0.745	0.862	0.933	0.970	0.988	0.996	0.998	0.999							
4.30	0.014	0.072	0.197	0.377	0.570	0.737	0.856	0.929	0.968	0.987	0.995	0.998	0.999							
4.35	0.013	0.069	0.191	0.368	0.561	0.728	0.850	0.925	0.966	0.986	0.995	0.998	0.999							
4.40	0.012	0.066	0.185	0.359	0.551	0.720	0.844	0.921	0.964	0.985	0.994	0.998	0.999							
4.45	0.012	0.064	0.179	0.351	0.542	0.711	0.837	0.917	0.962	0.984	0.994	0.998	0.999							
4.50	0.011	0.061	0.174	0.342	0.532	0.703	0.831	0.913	0.960	0.983	0.993	0.998	0.999							
4.55	0.011	0.059	0.168	0.335	0.523	0.694	0.825	0.909	0.957	0.982	0.993	0.997	0.999							
4.60	0.010	0.056	0.163	0.326	0.513	0.686	0.818	0.905	0.955	0.980	0.992	0.997	0.999							
4.65	0.010	0.054	0.157	0.318	0.504	0.677	0.811	0.901	0.952	0.979	0.992	0.997	0.999							
4.70	0.010	0.052	0.152	0.310	0.495	0.668	0.805	0.896	0.950	0.978	0.991	0.997	0.999							
4.75	0.009	0.050	0.147	0.302	0.485	0.660	0.798	0.891	0.947	0.976	0.990	0.996	0.999							
4.80	0.008	0.050	0.143	0.294	0.476	0.651	0.791	0.887	0.944	0.975	0.990	0.996	0.999							
4.85	0.008	0.050	0.138	0.287	0.467	0.642	0.784	0.882	0.941	0.973	0.989	0.996	0.998	0.999						
4.90	0.007	0.040	0.133	0.279	0.458	0.634	0.777	0.877	0.938	0.972	0.988	0.995	0.998	0.999						
4.95	0.007	0.040	0.129	0.272	0.449	0.625	0.769	0.872	0.935	0.970	0.987	0.995	0.998	0.999						
5.00	0.007	0.040	0.125	0.265	0.440	0.616	0.762	0.867	0.932	0.968	0.986	0.995	0.998	0.999						
5.05	0.006	0.040	0.121	0.258	0.432	0.607	0.755	0.861	0.929	0.966	0.985	0.994	0.998	0.999						
5.10	0.006	0.040	0.116	0.251	0.423	0.598	0.747	0.856	0.925	0.964	0.984	0.994	0.998	0.999						
5.15	0.000	0.040	0.113	0.245	0.415	0.590	0.740	0.850	0.922	0.962	0.983	0.993	0.997	0.999						
5.20	0.006	0.030	0.109	0.238	0.406	0.581	0.732	0.845	0.918	0.960	0.982	0.993	0.997	0.999						
5.25	0.005	0.030	0.105	0.232	0.398	0.572	0.725	0.839	0.914	0.958	0.981	0.992	0.997	0.999						
5.30	0.005	0.030	0.102	0.225	0.390	0.563	0.717	0.833	0.911	0.956	0.980	0.992	0.997	0.999						
5.35	0.005	0.030	0.098	0.249	0.381	0.555	0.709	0.828	0.907	0.954	0.979	0.994	0.996	0.999						
5.40	0.005	0.030	0.095	0.213	0.373	0.546	0.702	0.822	0.903	0.951	0.977	0.990	0.996	0.999						
5.45	0.004	0.028	0.091	0.207	0.365	0.538	0.694	0.816	0.899	0.949	0.976	0.990	0.996	0.999						
5.50	0.004	0.027	0.088	0.202	0.358	0.529	0.686	0.809	0.894	0.946	0.975	0.989	0.996	0.998	0.999					
5.55	0.004	0.026	0.086	0.200	0.350	0.520	0.678	0.803	0.890	0.944	0.973	0.988	0.995	0.998	0.999					
5.60	0.004	0.024	0.082	0.191	0.342	0.512	0.670	0.797	0.886	0.941	0.972	0.988	0.995	0.998	0.999					

LANDA	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
5.65	0.004	0.023	0.080	0.185	0.335	0.503	0.662	0.791	0.881	0.938	0.970	0.987	0.994	0.998	0.999					
5.70	0.003	0.022	0.080	0.180	0.327	0.495	0.654	0.784	0.877	0.935	0.969	0.986	0.994	0.998	0.999					
5.75	0.003	0.021	0.080	0.175	0.320	0.487	0.646	0.778	0.872	0.932	0.967	0.985	0.994	0.997	0.999					
5.80	0.003	0.021	0.071	0.170	0.313	0.478	0.638	0.771	0.867	0.938	0.965	0.984	0.993	0.997	0.999					
5.85	0.003	0.020	0.069	0.165	0.306	0.470	0.630	0.764	0.862	0.726	0.963	0.983	0.993	0.997	0.999					
5.90	0.003	0.019	0.067	0.160	0.299	0.462	0.622	0.758	0.857	0.923	0.961	0.982	0.992	0.997	0.999					
5.95	0.003	0.018	0.064	0.156	0.292	0.454	0.614	0.751	0.852	0.919	0.959	0.981	0.992	0.997	0.999					
6.00	0.002	0.017	0.062	0.151	0.285	0.446	0.606	0.744	0.847	0.916	0.957	0.980	0.991	0.996	0.999					
6.05	0.002	0.017	0.060	0.147	0.278	0.438	0.598	0.737	0.842	0.913	0.955	0.979	0.991	0.996	0.999					
6.10	0.002	0.016	0.058	0.143	0.272	0.430	0.590	0.730	0.837	0.939	0.953	0.978	0.990	0.996	0.999					
6.15	0.002	0.015	0.056	0.138	0.265	0.422	0.582	0.723	0.831	0.905	0.951	0.976	0.989	0.996	0.998	0.999				
6.20	0.002	0.015	0.054	0.134	0.259	0.414	0.574	0.716	0.826	0.902	0.949	0.975	0.989	0.995	0.998	0.999				
6.25	0.002	0.014	0.052	0.130	0.253	0.406	0.566	0.709	0.820	0.898	0.946	0.974	0.988	0.995	0.998	0.999				
6.30	0.002	0.013	0.050	0.126	0.247	0.399	0.558	0.702	0.815	0.894	0.944	0.972	0.987	0.995	0.998	0.999				
6.35	0.002	0.013	0.048	0.123	0.241	0.391	0.550	0.695	0.809	0.890	0.941	0.971	0.986	0.994	0.998	0.999				
6.40	0.002	0.012	0.046	0.119	0.235	0.384	0.542	0.687	0.803	0.886	0.939	0.969	0.986	0.994	0.997	0.999				
6.45	0.002	0.012	0.045	0.115	0.229	0.376	0.534	0.680	0.797	0.882	0.936	0.968	0.985	0.993	0.997	0.999				
6.50	0.002	0.011	0.043	0.112	0.224	0.369	0.527	0.673	0.792	0.877	0.933	0.966	0.984	0.993	0.997	0.999				
6.55	0.001	0.010	0.041	0.108	0.218	0.362	0.519	0.665	0.786	0.873	0.930	0.964	0.983	0.992	0.997	0.999				
6.60	0.001	0.010	0.040	0.105	0.213	0.355	0.511	0.658	0.780	0.869	0.927	0.963	0.982	0.992	0.997	0.999				
6.65	0.001	0.010	0.040	0.102	0.207	0.348	0.503	0.651	0.773	0.864	0.924	0.961	0.981	0.991	0.996	0.999				
6.70	0.001	0.010	0.010	0.100	0.202	0.341	0.495	0.643	0.767	0.860	0.921	0.959	0.980	0.991	0.996	0.998	0.999			
6.75	0.001	0.009	0.036	0.096	0.197	0.334	0.488	0.636	0.761	0.855	0.918	0.957	0.979	0.990	0.996	0.998	0.999			
6.80	0.001	0.009	0.034	0.093	0.192	0.327	0.480	0.628	0.755	0.850	0.915	0.955	0.978	0.990	0.996	0.998	0.999			
6.85	0.001	0.008	0.033	0.090	0.187	0.320	0.472	0.621	0.748	0.845	0.912	0.953	0.977	0.989	0.995	0.998	0.999			
6.90	0.001	0.008	0.032	0.087	0.182	0.315	0.465	0.614	0.742	0.840	0.908	0.951	0.976	0.989	0.995	0.998	0.999			
6.95	0.001	0.008	0.030	0.085	0.178	0.307	0.457	0.606	0.736	0.836	0.905	0.949	0.974	0.988	0.995	0.998	0.999			
7.00	0.001	0.007	0.030	0.082	0.173	0.301	0.450	0.599	0.729	0.830	0.902	0.947	0.973	0.987	0.994	0.998	0.999			
7.10	0.001	0.007	0.027	0.077	0.164	0.288	0.435	0.584	0.716	0.820	0.894	0.942	0.970	0.986	0.994	0.997	0.999			
7.20	0.001	0.006	0.025	0.072	0.156	0.276	0.420	0.569	0.703	0.810	0.887	0.937	0.967	0.984	0.993	0.997	0.999			
7.30	0.001	0.006	0.024	0.067	0.147	0.264	0.406	0.554	0.689	0.799	0.879	0.932	0.964	0.982	0.992	0.996	0.999			
7.40	0.001	0.005	0.022	0.063	0.140	0.253	0.392	0.540	0.676	0.788	0.871	0.926	0.961	0.980	0.991	0.996	0.998	0.999		
7.50	0.001	0.005	0.020	0.060	0.132	0.241	0.378	0.525	0.662	0.776	0.862	0.921	0.957	0.978	0.990	0.995	0.998	0.999		
7.60	0.001	0.004	0.019	0.055	0.125	0.231	0.365	0.510	0.648	0.765	0.854	0.915	0.954	0.976	0.989	0.995	0.998	0.999		
7.70	0.000	0.004	0.017	0.052	0.118	0.220	0.351	0.496	0.634	0.753	0.844	0.909	0.950	0.974	0.987	0.994	0.997	0.999		
7.80		0.004	0.016	0.048	0.112	0.210	0.338	0.481	0.620	0.471	0.835	0.902	0.945	0.971	0.986	0.993	0.997	0.999		
7.90		0.003	0.015	0.045	0.106	0.201	0.326	0.467	0.607	0.729	0.826	0.895	0.941	0.969	0.984	0.993	0.997	0.999		
8.00		0.003	0.014	0.042	0.096	0.191	0.313	0.453	0.593	0.717	0.16	0.888	0.936	0.966	0.983	0.992	0.996	0.998	0.999	
8.10		0.003	0.013	0.040	0.094	0.182	0.301	0.439	0.579	0.704	0.806	0.881	0.931	0.963	0.981	0.991	0.996	0.998	0.999	
8.20		0.003	0.012	0.037	0.089	0.174	0.290	0.425	0.565	0.692	0.796	0.873	0.925	0.960	0.979	0.990	0.995	0.998	0.999	
8.30		0.002	0.011	0.035	0.085	0.166	0.280	0.411	0.553	0.681	0.786	0.880	0.921	0.957	0.977	0.989	0.995	0.998	0.999	
8.40		0.002	0.010	0.032	0.079	0.157	0.267	0.399	0.537	0.666	0.774	0.857	0.915	0.952	0.975	0.987	0.894	0.997	0.999	
8.50		0.002	0.009	0.030	0.074	0.150	0.256	0.386	0.523	0.653	0.763	0.849	0.909	0.949	0.973	0.986	0.993	0.997	0.999	
8.60		0.002	0.009	0.028	0.070	0.142	0.246	0.373	0.509	0.640	0.752	0.840	0.903	0.945	0.970	0.985	0.993	0.997	0.999	
8.70		0.002	0.008	0.026	0.066	0.135	0.235	0.360	0.496	0.627	0.741	0.831	0.897	0.940	0.967	0.983	0.992	0.996	0.998	0.999
8.80		0.001	0.007	0.024	0.062	0.128	0.226	0.348	0.482	0.614	0.729	0.822	0.890	0.936	0.965	0.982	0.991	0.996	0.998	0.999
8.90		0.001	0.007	0.022	0.057	0.119	0.211	0.330	0.462	0.594	0.712	0.808	0.879	0.929	0.960	0.979	0.989	0.995	0.998	0.999
9.00		0.001	0.006	0.021	0.055	0.116	0.207	0.324	0.456	0.587	0.706	0.803	0.876	0.926	0.959	0.978	0.989	0.995	0.998	0.999

LANDA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
9.10	0.001	0.006	0.020	0.052	0.110	0.198	0.312	0.443	0.574	0.694	0.793	0.868	0.921	0.955	0.976	0.988	0.94	0.997	0.999	
9.20	0.001	0.005	0.018	0.048	0.104	0.189	0.301	0.430	0.561	0.682	0.783	0.861	0.916	0.952	0.974	0.987	0.993	0.997	0.999	
9.30	0.001	0.004	0.017	0.046	0.099	0.181	0.290	0.417	0.548	0.670	0.773	0.853	0.910	0.948	0.972	0.985	0.993	0.997	0.998	0.999
9.40	0.001	0.004	0.016	0.043	0.093	0.173	0.279	0.404	0.535	0.658	0.763	0.845	0.904	0.944	0.969	0.984	0.992	0.996	0.998	0.999
9.50	0.001	0.004	0.015	0.040	0.089	0.165	0.269	0.392	0.522	0.645	0.752	0.836	0.898	0.940	0.967	0.982	0.991	0.996	0.998	0.999
9.60	0.001	0.004	0.014	0.038	0.084	0.157	0.258	0.380	0.509	0.633	0.741	0.828	0.892	0.936	0.964	0.981	0.990	0.995	0.998	0.999
9.70	0.001	0.004	0.013	0.035	0.079	0.150	0.248	0.368	0.496	0.621	0.730	0.819	0.885	0.931	0.961	0.979	0.989	0.994	0.997	0.999
9.80	0.001	0.003	0.012	0.033	0.075	0.143	0.239	0.356	0.483	0.608	0.719	0.810	0.879	0.927	0.958	0.977	0.988	0.994	0.997	0.999
9.90	0.001	0.003	0.011	0.031	0.071	0.137	0.229	0.344	0.470	0.596	0.708	0.801	0.872	0.922	0.955	0.975	0.987	0.993	0.997	0.999
10.00	0.000	0.003	0.010	0.030	0.070	0.130	0.220	0.333	0.458	0.583	0.697	0.782	0.864	0.917	0.951	0.973	0.986	0.993	0.997	0.998
10.20		0.002	0.009	0.026	0.060	0.118	0.203	0.311	0.433	0.558	0.674	0.772	0.849	0.906	0.944	0.968	0.983	0.991	0.996	0.998
10.40		0.002	0.008	0.023	0.053	0.107	0.186	0.290	0.409	0.533	0.650	0.752	0.834	0.894	0.935	0.963	0.980	0.989	0.995	0.998
10.50		0.002	0.007	0.021	0.050	0.102	0.179	0.279	0.397	0.521	0.639	0.742	0.825	0.888	0.932	0.960	0.978	0.988	0.994	0.997
10.60		0.002	0.007	0.020	0.048	0.097	0.171	0.269	0.385	0.508	0.627	0.732	0.817	0.882	0.927	0.957	0.976	0.987	0.994	0.997
10.80		0.001	0.006	0.017	0.042	0.087	0.157	0.250	0.363	0.484	0.603	0.710	0.799	0.868	0.918	0.951	0.972	0.985	0.992	0.996
11.00		0.001	0.005	0.015	0.037	0.079	0.143	0.232	0.341	0.460	0.579	0.687	0.781	0.854	0.907	0.944	0.968	0.982	0.991	0.995
11.20		0.001	0.004	0.013	0.033	0.070	0.131	0.215	0.319	0.436	0.555	0.667	0.762	0.839	0.896	0.936	0.963	0.979	0.989	0.994
11.40		0.001	0.004	0.012	0.029	0.064	0.119	0.198	0.299	0.413	0.532	0.644	0.743	0.823	0.885	0.928	0.957	0.976	0.987	0.993
11.50		0.001	0.003	0.011	0.028	0.060	0.114	0.191	0.289	0.402	0.520	0.633	0.733	0.815	0.878	0.924	0.954	0.974	0.986	0.992
11.60		0.001	0.003	0.010	0.026	0.057	0.108	0.183	0.279	0.391	0.508	0.622	0.723	0.807	0.872	0.908	0.951	0.972	0.984	0.992
11.80		0.001	0.003	0.009	0.023	0.051	0.099	0.169	0.260	0.369	0.485	0.599	0.702	0.790	0.859	0.909	0.944	0.967	0.982	0.990
12.00		0.001	0.002	0.008	0.020	0.046	0.090	0.155	0.242	0.347	0.462	0.576	0.682	0.772	0.844	0.899	0.937	0.963	0.979	0.988
12.20		0.000	0.002	0.007	0.018	0.041	0.081	0.142	0.225	0.327	0.439	0.553	0.660	0.754	0.830	0.887	0.929	0.957	0.975	0.986
12.40			0.002	0.006	0.016	0.036	0.073	0.131	0.209	0.307	0.417	0.530	0.639	0.735	0.814	0.876	0.920	0.951	0.971	0.984
12.50			0.002	0.005	0.015	0.035	0.070	0.125	0.201	0.297	0.406	0.519	0.628	0.725	0.806	0.869	0.916	0.948	0.969	0.983
12.60			0.001	0.005	0.014	0.032	0.066	0.120	0.194	0.288	0.395	0.508	0.617	0.715	0.798	0.863	0.911	0.945	0.967	0.981
12.80			0.001	0.004	0.012	0.029	0.060	0.109	0.179	0.269	0.374	0.485	0.595	0.695	0.781	0.850	0.901	0.938	0.963	0.978
13.00			0.001	0.004	0.00	0.026	0.054	0.100	0.166	0.252	0.353	0.463	0.573	0.675	0.764	0.835	0.890	0.930	0.957	0.975
13.20			0.000	0.003	0.009	0.023	0.049	0.091	0.153	0.235	0.333	0.441	0.551	0.655	0.746	0.821	0.879	0.922	0.952	0.971
13.40				0.003	0.008	0.020	0.044	0.083	0.141	0.249	0.319	0.420	0.529	0.634	0.727	0.805	0.867	0.913	0.945	0.967
13.50				0.003	0.008	0.019	0.041	0.079	0.135	0.211	0.304	0.409	0.518	0.623	0.718	0.798	0.861	0.908	0.942	0.965
13.60				0.002	0.007	0.018	0.040	0.075	0.130	0.204	0.295	0.399	0.507	0.613	0.708	0.789	0.854	0.904	0.939	0.963
13.80				0.002	0.006	0.016	0.035	0.069	0.119	0.189	0.277	0.378	0.486	0.592	0.689	0.773	0.841	0.893	0.931	0.958
14.00				0.002	0.005	0.014	0.032	0.062	0.109	0.176	0.260	0.268	0.464	0.570	0.669	0.756	0.827	0.883	0.923	0.952
14.20				0.002	0.005	0.013	0.028	0.056	0.100	0.163	0.243	0.339	0.43	0.549	0.649	0.738	0.813	0.871	0.915	0.946
14.40				0.001	0.004	0.011	0.025	0.051	0.092	0.151	0.228	0.320	0.423	0.528	0.630	0.720	0.797	0.859	0.906	0.940
14.50				0.001	0.004	0.010	0.024	0.048	0.088	0.145	0.220	0.311	0.413	0.518	0.619	0.711	0.790	1.853	0.901	0.936
14.60				0.001	0.004	0.010	0.023	0.046	0.084	0.139	0.213	0.302	0.402	0.507	0.609	0.702	0.782	0.847	0.896	0.933
14.80				0.001	0.003	0.009	0.020	0.042	0.066	0.129	0.198	0.285	0.383	0.486	0.589	0.683	0.766	0.833	0.886	0.925
15.00				0.001	0.003	0.008	0.018	0.037	0.070	0.118	0.185	0.268	0.363	0.466	0.568	0.664	0.749	0.819	0.875	0.917
15.20				0.000	0.002	0.007	0.016	0.033	0.064	0.109	0.172	0.251	0.344	0.445	0.548	0.645	0.732	0.805	0.864	0.908
15.40					0.002	0.006	0.014	0.030	0.058	0.100	0.160	0.236	0.326	0.425	0.527	0.625	0.714	0.790	0.852	0.899
15.50					0.002	0.006	0.013	0.029	0.055	0.096	0.154	0.228	0.317	0.415	0.517	0.615	0.705	0.782	0.846	0.894
15.60					0.002	0.005	0.013	0.027	0.053	0.092	0.148	0.221	0.308	0.406	0.507	0.606	0.696	0.775	0.839	0.889
15.80					0.002	0.005	0.012	0.025	0.048	0.084	0.137	0.207	0.291	0.386	0.487	0.586	0.678	0.759	0.826	0.879
16.00					0.001	0.004	0.010	0.022	0.043	0.077	0.127	0.193	0.275	0.368	0.467	0.566	0.659	0.742	0.812	0.868
16.20					0.001	0.004	0.009	0.020	0.039	0.071	0.117	0.180	0.259	0.349	0.447	0.546	0.641	0.726	0.798	0.857
16.40					0.001	0.003	0.008	0.018	0.035	0.065	0.108	0.168	0.243	0.331	0.428	0.526	0.622	0.708	0.783	0.845
16.50					0.001	0.003	0.007	0.017	0.034	0.062	0.104	0.162	0.236	0.323	0.418	0.516	0.612	0.700	0.776	0.838
16.60					0.001	0.003	0.007	0.016	0.032	0.059	0.100	0.156	0.228	0.315	0.409	0.507	0.602	0.691	0.768	0.832
16.80					0.001	0.002	0.006	0.014	0.029	0.054	0.092	0.145	0.214	0.297	0.390	0.487	0.583	0.673	0.752	0.819
17.00					0.001	0.002	0.005	0.013	0.026	0.049	0.084	0.135	0.201	0.281	0.371	0.468	0.564	0.655	0.736	0.805
17.20					0.001	0.002	0.005	0.011	0.024	0.045	0.078	0.125	0.188	0.265	0.353	0.449	0.545	0.637	0.720	0.791
17.40					0.001	0.002	0.004	0.010	0.021	0.040	0.071	0.116	0.176	0.250	0.336	0.430	0.526	0.618	0.703	0.777
17.50					0.000	0.001	0.004	0.009	0.020	0.039	0.068	0.112	0.170	0.243	0.328	0.420	0.516	0.609	0.695	0.769
17.60						0.001	0.003	0.009	0.019	0.037	0.065	0.107	0.164	0.235	0.319	0.411	0.506	0.600	0.686	0.762
17.80						0.001	0.003	0.008	0.017	0.033	0.060	0.099	0.153	0.221	0.303	0.393	0.487	0.581	0.669	0.746
18.00						0.001	0.003	0.007	0.015	0.030	0.055	0.092	0.143	0.208	0.287	0.375	0.469	0.562	0.651	0.731



LANDA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
18.20						0.001	0.003	0.006	0.014	0.027	0.050	0.084	0.133	0.195	0.271	0.358	0.450	0.544	0.633	0.715
18.40						0.000	0.002	0.006	0.012	0.025	0.046	0.078	0.123	0.183	0.256	0.341	0.432	0.525	0.615	0.698
18.50							0.002	0.005	0.012	0.024	0.044	0.075	0.119	0.177	0.249	0.332	0.423	0.516	0.806	0.690
18.60							0.002	0.005	0.011	0.022	0.042	0.072	0.115	0.171	0.242	0.324	0.414	0.506	0.597	0.681
18.80							0.002	0.004	0.010	0.020	0.038	0.066	0.106	0.160	0.228	0.308	0.396	0.488	0.579	0.664
19.00							0.001	0.004	0.009	0.018	0.035	0.061	0.098	0.150	0.215	0.292	0.37	0.489	0.561	0.647
19.20							0.001	0.003	0.008	0.017	0.031	0.056	0.091	0.140	0.202	0.277	0.361	0.451	0.542	0.630
19.40							0.001	0.003	0.007	0.015	0.029	0.051	0.084	0.130	0.190	0.262	0.345	0.433	0.524	0.612
19.50							0.001	0.003	0.007	0.014	0.027	0.049	0.081	0.126	0.184	0.255	0.336	0.425	0.515	0.603
19.60							0.001	0.003	0.006	0.013	0.026	0.047	0.078	0.121	0.178	0.248	0.328	0.416	0.506	0.595
19.80							0.001	0.002	0.006	0.012	0.024	0.043	0.072	0.113	0.167	0.234	0.312	0.398	0.488	0.577
20.00							0.001	0.002	0.005	0.011	0.021	0.039	0.066	0.105	0.157	0.221	0.297	0.381	0.470	0.559
20.20							0.001	0.002	0.004	0.010	0.019	0.036	0.061	0.097	0.146	0.208	0.282	0.365	0.453	0.541
20.40							0.001	0.002	0.004	0.009	0.018	0.033	0.056	0.090	0.137	0.196	0.268	0.348	0.435	0.524
20.50							0.001	0.002	0.004	0.008	0.017	0.031	0.054	0.087	0.132	0.190	0.260	0.340	0.426	0.515
20.60							0.000	0.001	0.004	0.008	0.016	0.030	0.051	0.084	0.128	0.185	0.254	0.332	0.418	0.506
20.80								0.001	0.003	0.008	0.014	0.027	0.047	0.077	0.119	0.174	0.240	0.317	0.401	0.488
21.00								0.001	0.003	0.006	0.013	0.024	0.043	0.071	0.111	0.163	0.227	0.302	0.384	0.471
21.20								0.001	0.002	0.006	0.012	0.022	0.040	0.066	0.103	0.153	0.214	0.287	0.368	0.454
21.40								0.001	0.002	0.005	0.010	0.020	0.036	0.061	0.096	0.143	0.202	0.273	0.352	0.437
21.50								0.001	0.002	0.005	0.010	0.019	0.035	0.059	0.093	0.139	0.196	0.266	0.344	0.428
21.60								0.001	0.002	0.004	0.009	0.018	0.033	0.056	0.089	0.134	0.191	0.259	0.336	0.420
21.80								0.001	0.002	0.004	0.008	0.017	0.030	0.052	0.083	0.125	0.180	0.245	0.321	0.403
22.00								0.001	0.002	0.003	0.008	0.015	0.028	0.048	0.077	0.117	0.169	0.233	0.306	0.387
22.20								0.000	0.001	0.003	0.007	0.014	0.025	0.044	0.071	0.109	0.159	0.220	0.291	0.371
22.40									0.001	0.003	0.006	0.012	0.023	0.040	0.066	0.102	0.149	0.208	0.277	0.355
22.50									0.001	0.003	0.006	0.011	0.022	0.039	0.063	0.098	0.144	0.202	0.271	0.347
22.60									0.001	0.003	0.006	0.011	0.021	0.037	0.061	0.094	0.140	0.196	0.264	0.340
22.80									0.001	0.002	0.005	0.010	0.019	0.034	0.056	0.088	0.131	0.186	0.254	0.325
23.00									0.001	0.002	0.004	0.009	0.017	0.031	0.052	0.082	0.123	0.175	0.238	0.310
23.20									0.001	0.002	0.004	0.008	0.016	0.028	0.048	0.076	0.115	0.165	0.225	0.296
23.40									0.001	0.002	0.004	0.007	0.014	0.026	0.044	0.071	0.107	0.155	1.213	0.282
23.50									0.000	0.001	0.003	0.007	0.014	0.025	0.042	0.068	0.104	0.150	0.208	0.275
23.60										0.001	0.003	0.007	0.013	0.024	0.041	0.066	0.100	0.146	0.202	0.268
23.80										0.001	0.003	0.006	0.012	0.022	0.037	0.061	0.093	0.137	0.191	0.255
24.00										0.001	0.003	0.005	0.011	0.020	0.034	0.056	0.087	0.128	0.180	0.243
24.20										0.001	0.002	0.005	0.010	0.018	0.032	0.052	0.081	0.120	0.170	0.230
24.40										0.001	0.002	0.004	0.009	0.017	0.029	0.048	0.075	0.113	0.160	0.249
24.50										0.001	0.002	0.004	0.008	0.016	0.028	0.046	0.073	0.109	0.156	0.213
24.60										0.001	0.002	0.004	0.008	0.015	0.027	0.044	0.070	0.105	0.151	0.207
24.80										0.001	0.002	0.004	0.007	0.014	0.024	0.041	0.065	0.099	0.142	0.196
25.00										0.000	0.001	0.003	0.006	0.012	0.022	0.038	0.060	0.092	0.134	0.185

**Tabla 8. Distribución t de Student.**

<b>Distribución t de Student</b>							
<b>gl</b>	<b>0.75</b>	<b>0.90</b>	<b>0.95</b>	<b>0.975</b>	<b>0.99</b>	<b>0.995</b>	<b>0.9995</b>
<b>1</b>	1.000	3.078	6.314	12.706	31.821	63.657	636.619
<b>2</b>	0.816	1.886	2.920	4.303	6.965	9.925	31.598
<b>3</b>	0.765	1.638	2.353	3.182	4.541	5.841	12.941
<b>4</b>	0.741	1.533	2.132	2.776	3.747	4.604	8.610
<b>5</b>	0.727	1.476	2.015	2.571	3.365	4.032	6.859
<b>6</b>	0.718	1.440	1.943	2.447	3.143	3.707	5.959
<b>7</b>	0.711	1.415	1.895	2.365	2.998	3.499	5.405
<b>8</b>	0.706	1.397	1.860	2.306	2.896	3.355	5.041
<b>9</b>	0.703	1.383	1.833	2.262	2.821	3.250	4.781
<b>10</b>	0.700	1.372	1.812	2.228	2.764	3.169	4.587
<b>11</b>	0.697	1.363	1.796	2.201	2.718	3.106	4.437
<b>12</b>	0.695	1.356	1.782	2.179	2.681	3.055	4.318
<b>13</b>	0.694	1.350	1.771	2.160	2.650	3.012	4.221
<b>14</b>	0.692	1.345	1.761	2.145	2.624	2.977	4.140
<b>15</b>	0.691	1.341	1.753	2.131	2.602	2.947	4.073
<b>16</b>	0.690	1.337	1.746	2.120	2.583	2.921	4.015
<b>17</b>	0.689	1.333	1.740	2.110	2.567	2.898	3.965
<b>18</b>	0.688	1.330	1.734	2.101	2.552	2.878	3.922
<b>19</b>	0.688	1.328	1.729	2.093	2.539	2.861	3.883
<b>20</b>	0.687	1.325	1.725	2.086	2.528	2.845	3.850
<b>21</b>	0.686	1.323	1.721	2.080	2.518	2.831	3.819
<b>22</b>	0.686	1.321	1.717	2.074	2.508	2.819	3.792
<b>23</b>	0.685	1.319	1.714	2.069	2.500	2.807	3.767
<b>24</b>	0.685	1.318	1.711	2.064	2.492	2.797	3.745
<b>25</b>	0.684	1.316	1.708	2.060	2.485	2.787	3.725
<b>26</b>	0.684	1.315	1.706	2.056	2.479	2.779	3.707
<b>27</b>	0.684	1.314	1.703	2.052	2.473	2.771	3.690
<b>28</b>	0.683	1.313	1.701	2.048	2.467	2.763	3.674
<b>29</b>	0.683	1.311	1.699	2.045	2.462	2.756	3.659
<b>30</b>	0.683	1.310	1.697	2.042	2.457	2.750	3.646
<b>40</b>	0.681	1.303	1.684	2.021	2.423	2.704	3.551
<b>60</b>	0.679	1.296	1.671	2.000	2.390	2.660	3.460
<b>120</b>	0.677	1.289	1.658	1.980	2.358	2.617	3.373

**Tabla 9. Puntos Porcentuales del Estadístico Rango Estudentizado (5%) para la Prueba de Tukey**

	<i>p</i>														
<i>f</i>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	18.10	26.70	32.8	37.20	40.50	43.10	45.40	47.30	49.10	50.60	51.90	53.20	54.30	55.40	56.30
2	6.09	8.28	9.80	10.89	11.73	12.43	13.03	13.54	13.99	14.39	14.75	15.08	15.38	15.65	15.90
3	4.50	5.88	6.83	7.51	8.04	8.47	8.85	9.18	9.46	9.72	9.95	10.16	10.35	10.52	10.60
4	3.93	5.00	5.76	6.31	6.73	7.06	7.35	7.60	7.83	8.03	8.21	8.37	8.52	8.67	8.80
5	3.61	4.54	5.18	5.64	5.99	6.28	6.52	6.74	6.93	7.10	7.25	7.39	7.52	7.64	7.75
6	3.46	4.34	4.90	5.31	5.63	5.89	6.12	6.32	6.49	6.65	6.79	6.92	7.04	7.14	7.24
7	3.34	4.16	4.68	5.06	5.35	5.59	5.80	5.99	6.15	6.29	6.42	6.54	6.65	6.75	6.84
8	3.26	4.04	4.53	4.89	5.17	5.40	5.60	5.77	5.92	6.05	6.18	6.29	6.39	6.48	6.57
9	3.20	3.95	4.42	4.76	5.02	5.24	5.43	5.60	5.74	5.87	5.98	6.09	6.19	6.28	6.36
10	3.15	3.88	4.33	4.66	4.91	5.12	5.30	5.46	5.60	5.72	5.83	5.93	6.03	6.12	6.20
11	3.11	3.82	4.26	4.58	4.82	5.03	5.20	5.35	5.49	5.61	5.71	5.81	5.90	5.98	6.06
12	3.08	3.77	4.20	4.51	4.75	4.95	5.12	5.27	5.40	5.51	5.61	5.71	5.80	5.88	5.95
13	3.06	3.73	4.15	4.46	4.69	4.88	5.05	5.19	5.32	5.43	5.53	5.63	5.71	5.79	5.86
14	3.03	3.70	4.11	4.41	4.64	4.83	4.99	5.13	5.25	5.36	5.46	5.56	5.64	5.72	5.79
15	3.01	3.67	4.08	4.37	4.59	4.78	4.94	5.08	5.20	5.31	5.40	5.49	5.57	5.65	5.72
16	3.00	3.65	4.05	4.34	4.56	4.74	4.90	5.03	5.15	5.26	5.35	5.44	5.52	5.59	5.66
17	2.98	3.62	4.02	4.31	4.52	4.70	4.86	4.99	5.11	5.21	5.31	5.39	5.47	5.55	5.61
18	2.97	3.61	4.00	4.28	4.49	4.67	4.83	4.96	5.07	5.17	5.27	5.35	5.43	5.50	5.57
19	2.96	3.59	3.98	4.26	4.47	4.64	4.79	4.92	5.04	5.14	5.23	5.32	5.39	5.46	5.53
20	2.95	3.58	3.96	4.24	4.45	4.62	4.77	4.90	5.01	5.11	5.20	5.28	5.36	5.43	5.50
24	2.92	3.53	3.90	4.17	4.37	4.54	4.68	4.81	4.92	5.01	5.10	5.18	5.25	5.32	5.38
30	2.89	3.48	3.84	4.11	4.30	4.46	4.60	4.72	4.83	4.92	5.00	5.08	5.15	5.21	5.27
40	2.86	3.44	3.79	4.04	4.23	4.39	4.52	4.63	4.74	4.82	4.90	4.98	5.05	5.11	5.17
60	2.83	3.40	3.74	3.98	4.16	4.31	4.44	4.55	4.65	4.73	4.81	4.88	4.94	5.00	5.06
120	2.80	3.36	3.69	3.92	4.10	4.24	4.36	4.47	4.56	4.64	4.71	4.78	4.84	4.90	4.95
$\infty$	2.77	3.32	3.63	3.86	4.03	4.17	4.29	4.39	4.47	4.55	4.62	4.68	4.74	4.80	4.84

**Tabla 10. Sumas de probabilidades binomial  $\sum b(x;n,p)$   
X=0**

n	r	<i>p</i>									
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90
1	0	.9000	.8000	.7500	.7000	.6000	.5000	.4000	.3000	.2000	.1000
	1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2	0	.8100	.6400	.5625	.4900	.3600	.2500	.1600	.0900	.0400	.0100
	1	.9900	.9600	.9375	.9100	.8400	.7500	.6400	.5100	.3600	.1900
	2	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3	0	.7290	.5120	.4219	.3430	.2160	.1250	.0640	.0270	.0080	.0010
	1	.9720	.8960	.8438	.7840	.6480	.5000	.3520	.2160	.1040	.0280
	2	.9990	.9920	.9844	.9730	.9360	.8750	.7840	.6570	.4880	.2710
	3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
4	0	.6561	.4096	.3164	.2401	.1296	.0625	.0256	.0081	.0016	.0001
	1	.9477	.8192	.7383	.6517	.4752	.3125	.1792	.0837	.0272	.0037
	2	.9963	.9728	.9492	.9163	.8208	.6875	.5248	.3483	.1808	.0523
	3	.9999	.9984	.9961	.9919	.9744	.9375	.8704	.7599	.5904	.3439
	4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5	0	.5905	.3277	.2373	.1681	.0778	.0312	.0102	.0024	.0003	.0000
	1	.9185	.7373	.6328	.5282	.3370	.1875	.0870	.0308	.0067	.0005
	2	.9914	.9421	.8965	.8369	.6826	.5000	.3174	.1631	.0579	.0086
	3	.9995	.9933	.9844	.9692	.9130	.8125	.6630	.4718	.2627	.0815
	4	1.000	.9997	.9990	.9976	.9898	.9688	.9222	.8319	.6723	.4095
	5		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
6	0	.5314	.2621	.1780	.1176	.0467	.0156	.0041	.0007	.0001	.0000
	1	.8857	.6554	.5339	.4202	.2333	.1094	.0410	.0109	.0016	.0001
	2	.9841	.9011	.8306	.7443	.5443	.3438	.1792	.0705	.0170	.0013
	3	.9987	.9830	.9624	.9295	.8208	.6563	.4557	.2557	.0989	.0158
	4	.9999	.9984	.9954	.9891	.9590	.8906	.7667	.5798	.3447	.1143
	5	1.000	.9999	.9998	.9993	.9959	.9844	.9533	.8824	.7379	.4686
	6		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7	0	.4783	.2097	.1335	.0824	.0280	.0078	.0016	.0002	.0000	
	1	.8503	.5767	.4449	.3294	.1586	.0625	.0188	.0038	.0004	.0000
	2	.9743	.8520	.7564	.6471	.4199	.2266	.0963	.0288	.0047	.0002
	3	.9973	.9667	.9294	.8740	.7102	.5000	.2898	.1260	.0333	.0027
	4	.9998	.9953	.9871	.9712	.9037	.7734	.5801	.3529	.1480	.0257
	5	1.000	.9996	.9987	.9962	.9812	.9375	.8414	.6706	.4233	.1497
	6		1.000	.9999	.9998	.9984	.9922	.9720	.9176	.7903	.5217
	7			1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

**Tabla 10. (continuación) Sumas de probabilidades binomial  $\sum b(x;n,p)$   
X=0**

n	r	p									
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90
8	0	.4305	.1678	.1001	.0576	.0168	.0039	.0007	.0001	.0000	
	1	.8131	.5033	.3671	.2553	.1064	.0352	.0085	.0013	.0001	
	2	.9619	.7969	.6785	.5518	.3154	.1445	.0498	.0113	.0012	.0000
	3	.9950	.9437	.8862	.8059	.5941	.3633	.1737	.0580	.0104	.0004
	4	.9996	.9896	.9727	.9420	.8263	.6367	.4059	.1941	.0563	.0050
	5	1.000	.9988	.9958	.9887	.9502	.8555	.6846	.4482	.0203	.0381
	6		.9991	.9996	.9987	.9915	.9648	.8936	.7447	.4967	.1869
	7		1.000	1.000	.9999	.9993	.9961	.9832	.9424	.8322	.5695
	8				1.000	1.000	1.000	1.000	1.000	1.000	1.000
9	0	.3784	.1342	.0751	.0404	.0101	.0020	.0003	.0000		
	1	.7748	.4362	.3003	.1960	.0705	.0195	.0038	.0004	.0000	
	2	.9470	.7382	.6007	.4628	.2318	.0898	.0250	.0043	.0003	.0000
	3	.9917	.9144	.8343	.7297	.4826	.2539	.0994	.0253	.0031	.0001
	4	.9991	.9804	.9511	.9012	.7334	.5000	.2666	.0988	.0196	.0009
	5	.9999	.9969	.9900	.9747	.9006	.7461	.5174	.2703	.0856	.0083
	6	1.000	.9997	.9987	.9957	.9750	.9102	.7682	.5372	.2618	.0530
	7		1.000	.9999	.9996	.9962	.9805	.9295	.8040	.5638	.2252
	8			1.000	1.000	.9997	.9980	.9899	.9596	.8658	.6126
	9					1.000	1.000	1.000	1.000	1.000	1.000
10	0	.3487	.1074	.0563	.0282	.0060	.0010	.0001	.0000		
	1	.7361	.3758	.2440	.1493	.0464	.0107	.0017	.0001	.0000	
	2	.9298	.6778	.5256	.3828	.1673	.0547	.0123	.0016	.0001	
	3	.9872	.8791	.7759	.6496	.3823	.1719	.0548	.0106	.0009	.0000
	4	.9984	.9672	.9219	.8497	.6331	.3770	.1662	.0474	.0064	.0002
	5	.9999	.9936	.9803	.9527	.8338	.6230	.3669	.1503	.0328	.0016
	6	1.000	.9991	.9965	.9894	.9452	.8281	.6177	.3504	.1209	.0128
	7		.9999	.9996	.9984	.9877	.9453	.8327	.6172	.3222	.0702
	8		1.000	1.000	.9999	.9983	.9893	.9536	.8507	.6242	.2639
	9				1.000	.9999	.9990	.9940	.9718	.8926	.6513
	10					1.000	1.000	1.000	1.000	1.000	1.000

**Tabla 10. (continuación) Sumas de probabilidades binomial  $\sum b(x;n,p)$**

n	r	p									
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90
11	0	.3138	.0859	.0422	.0198	.0036	.0005	.0000			
	1	.6974	.3221	.1971	.1130	.0302	.0059	.0007	.0000		
	2	.9104	.6174	.4552	.3127	.1189	.0327	.0059	.0006	.0000	
	3	.9815	.8369	.7133	.5696	.2963	.1133	.0293	.0043	.0002	
	4	.9972	.9496	.8854	.7897	.5328	.2744	.0994	.0216	.0020	.0000
	5	.9997	.9883	.9657	.9218	.7535	.5000	.2465	.0782	.0117	.0003
	6	1.000	.9980	.9924	.9784	.9006	.7256	.4672	.2103	.0504	.0028
	7		.9998	.9988	.9957	.9707	.8867	.7037	.4304	.1611	.0185
	8		1.000	.9999	.9994	.9941	.9673	.8811	.6873	.3826	.0896
	9			1.000	1.000	.9993	.9941	.9698	.8870	.6779	.3026
	10					1.000	.9995	.9964	.9802	.9141	.6862
11						1.000	1.000	1.000	1.000	1.000	
12	0	.2824	.0687	.0317	.0138	.0022	.0002	.0000			
	1	.6590	.2749	.1584	.0850	.0196	.0032	.0003	.0000		
	2	.8891	.5583	.3907	.2228	.0834	.0730	.0028	.0002	.0000	
	3	.9744	.7946	.6488	.4925	.2253	.1938	.0153	.0017	.0001	
	4	.9957	.9274	.8424	.7237	.4382	.3872	.0573	.0095	.0006	.0000
	5	.9995	.9806	.9456	.8821	.6652	.6128	.1582	.0386	.0039	.0001
	6	.9999	.9961	.9857	.9614	.8418	.8062	.3348	.1178	.0194	.0005
	7	1.000	.9994	.9972	.9905	.9427	.9270	.5618	.2763	.0726	.0043
	8		.9999	.9996	.9983	.9487	.9807	.7747	.5075	.2054	.0256
	9		1.000	1.000	.9998	.9972	.9968	.9166	.7472	.4417	.1109
	10				1.000	.9997	.9998	.9804	.9150	.7251	.3410
	11					1.000	1.000	.9978	.9862	.9313	.7176
12							1.000	1.000	1.000	1.000	
13	0	.2542	.0550	.0238	.0097	.0013	.0001	.0000			
	1	.6213	.2336	.1267	.0637	.0126	.0017	.0001	.0000		
	2	.8661	.5017	.3326	.2025	.0579	.0012	.0013	.0001		
	3	.9658	.7473	.5843	.4206	.1686	.0461	.0078	.0007	.0000	
	4	.9935	.9009	.7940	.6543	.3530	.1334	.0321	.0040	.0002	
	5	.9991	.9700	.9198	.8346	.5744	.2905	.0977	.0182	.0012	.0000
	6	.9999	.9930	.9757	.9376	.7712	.5000	.2288	.0624	.0070	.0001
	7	1.000	.9980	.9944	.9818	.9023	.7095	.4256	.1654	.0300	.0009
	8		.9998	.9990	.9960	.9679	.8666	.6470	.3457	.0991	.0065
	9		1.000	.9999	.9993	.9922	.9513	.8314	.5794	.2527	.0342
	10			1.000	.9999	.9987	.9888	.9421	.7975	.4983	.1339
	11				1.000	.9999	.9983	.9874	.9363	.7664	.3787
	12					1.000	.9999	.9987	.9903	.9450	.7458
13						1.000	1.000	1.000	1.000	1.000	

**Tabla 10. (continuación) Sumas de probabilidades binomial  $\sum b(x;n,p)$**

n	r	<i>p</i>														
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90					
14	0	.2288	.0440	.0178	.0068	.0008	.0001	.0000								
	1	.5846	.1979	.1010	.0475	.0081	.0009	.0001								
	2	.8416	.4481	.2811	.1608	.0398	.0065	.0006	.0000							
	3	.9559	.6982	.5213	.3552	.1243	.0287	.0039	.0002							
	4	.9908	.8702	.7415	.5842	.2793	.0898	.0175	.0017	.0000						
	5	.9985	.9561	.8883	.7805	.4859	.2120	.0583	.0083	.0004						
	6	.9998	.9884	.9617	.9067	.6925	.3953	.1501	.0315	.0024	.0000					
	7	1.000	.9976	.9897	.9685	.8499	.6047	.3075	.0933	.0016	.0002					
	8		.9996	.9978	.9917	.9417	.7880	.5141	.2195	.0439	.0015					
	9		1.000	.9997	.9983	.9825	.9102	.7207	.4158	.1298	.0092					
	10			1.000	.9998	.9961	.9713	.8757	.6448	.3018	.0441					
	11				1.000	.9994	.9935	.9602	.8392	.5519	.1584					
	12					.9999	.9991	.9919	.9525	.8021	.4154					
	13						1.000	.9999	.9992	.9932	.9560	.7712				
	14							1.000	1.000	1.000	1.000	1.000	1.000			
15	0	.2059	.0352	.0134	.0047	.0005	.0000									
	1	.5490	.1671	.0802	.0353	.0052	.0005	.0000								
	2	.8159	.3980	.2361	.1268	.0271	.0037	.0003	.0000							
	3	.9444	.6482	.4613	.2969	.0905	.0176	.0019	.0001							
	4	.9873	.8358	.6865	.5155	.2173	.0592	.0094	.0007	.0000						
	5	.9978	.9389	.8516	.7216	.4032	.1509	.0338	.0037	.0001						
	6	.9997	.9819	.9434	.8689	.6098	.3036	.0951	.0152	.0008						
	7	1.000	.9958	.9827	.9500	.7869	.5000	.2131	.0500	.0042	.0000					
	8		.9992	.9958	.9848	.9050	.6964	.3902	.1311	.0181	.0003					
	9		.9999	.9992	.9963	.9662	.8491	.5968	.2784	.0611	.0023					
	10		1.000	.9999	.9993	.9907	.9408	.7827	.4845	.1642	.0127					
	11			1.000	.9999	.9981	.9824	.9095	.7031	.3518	.0556					
	12				1.000	.9997	.9963	.9729	.8732	.6020	.1841					
	13					1.000	.9995	.9948	.9647	.8329	.4510					
	14						1.000	.9995	.9953	.9648	.7941					
	15							1.000	1.000	1.000	1.000	1.000	1.000			

**Tabla 10. (continuación) Sumas de probabilidades binomial  $\sum b(x;n,p)$**

n	r	<i>p</i>														
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90					
16	0	.1853	.0281	.0100	.0033	.0003	.0000									
	1	.5147	.1407	.0635	.0261	.0033	.0003	.0000								
	2	.7892	.3518	.1971	.0994	.0183	.0021	.0001								
	3	.9316	.5981	.4050	.2459	.0651	.0106	.0009	.0000							
	4	.9830	.7982	.6302	.4499	.1666	.0384	.0049	.0003							
	5	.9967	.9183	.8103	.6598	.3288	.1051	.0191	.0016	.0000						
	6	.9995	.9733	.9204	.8247	.5272	.2272	.0583	.0071	.0002						
	7	.9999	.9930	.9729	.9256	.7161	.4018	.1423	.0257	.0015	.0000					
	8	1.000	.9985	.9925	.9743	.8577	.5982	.2839	.0744	.0070	.0001					
	9		.9998	.9984	.9929	.9417	.7728	.4728	.1753	.0267	.0005					
	10		1.000	.9997	.9984	.9809	.8949	.6712	.3402	.0817	.0033					
	11			1.000	.9997	.9951	.9616	.8334	.5501	.2018	.0170					
	12				1.000	.9991	.9894	.9349	.7541	.4019	.0684					
	13					.9999	.9979	.9817	.9006	.6482	.2108					
	14					1.000	.9997	.9967	.9739	.8593	.4853					
	15						1.000	.9997	.9967	.9719	.8147					
16							1.000	1.000	1.000	1.000						
17	0	.1668	.0225	.0075	.0023	.0002	.0000									
	1	.4818	.1182	.0501	.0193	.0021	.0001	.0000								
	2	.7618	.3096	.1637	.0774	.0123	.0012	.0001								
	3	.9174	.5489	.3530	.2019	.0464	.0064	.0005	.0000							
	4	.9779	.7582	.5739	.3887	.1260	.0245	.0025	.0001							
	5	.9953	.8943	.7653	.5698	.2639	.0717	.0106	.0007	.0000						
	6	.9992	.9623	.8929	.7752	.4478	.1662	.0348	.0032	.0001						
	7	.9999	.9891	.9598	.8954	.6405	.3145	.0919	.0127	.0005						
	8	1.000	.9974	.9876	.9597	.8011	.5000	.1989	.0403	.0026	.0000					
	9		.9995	.9969	.9873	.9081	.6855	.3595	.1046	.0109	.0001					
	10		.9999	.9994	.9968	.9652	.8338	.5522	.2248	.0377	.0008					
	11		1.000	.9999	.9993	.9894	.9283	.7361	.4032	.1057	.0047					
	12			1.000	.9999	.9975	.9755	.8740	.6113	.2418	.0221					
	13				1.000	.9995	.9936	.9536	.7981	.4511	.0826					
	14					.9999	.9988	.9877	.9226	.6904	.2382					
	15					1.000	.9999	.9979	.9807	.8818	.5182					
	16						1.000	.9998	.9977	.9975	.8332					
17							1.000	1.000	1.000	1.000						



**Tabla 10. (continuación) Sumas de probabilidades binomial  $\sum b(x;n,p)$**

n	r	<i>p</i>																		
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90									
18	0	.0501	.0180	.0056	.0016	.0001	.0000													
	1	.4503	.0991	.0395	.0142	.0013	.0001													
	2	.7338	.2713	.1353	.0600	.0082	.0007	.0000												
	3	.9018	.5010	.3057	.1646	.0328	.0038	.0002												
	4	.9718	.7164	.5787	.3327	.0942	.0154	.0013	.0000											
	5	.9936	.8671	.7175	.5344	.2088	.0481	.0058	.0003											
	6	.9988	.9487	.8610	.7217	.3743	.1189	.0203	.0014	.0000										
	7	.9998	.9837	.9431	.8593	.5634	.2403	.0576	.0061	.0002										
	8	1.000	.9957	.9807	.9404	.7368	.4073	.1347	.0210	.0009										
	9		.9991	.9946	.9790	.8653	.5927	.2632	.0596	.0043	.0000									
	10		.9998	.9988	.9939	.9424	.7597	.4366	.1407	.0163	.0002									
	11		1.000	.9998	.9986	.9797	.8811	.6257	.2783	.0513	.0012									
	12			1.000	.9997	.9942	.9519	.7912	.4656	.1329	.0064									
	13				1.000	.9987	.9846	.9058	.6673	.2836	.0282									
	14					.9998	.9962	.9672	.8354	.4990	.0982									
	15					1.000	.9993	.9918	.9940	.7287	.2662									
	16						.9999	.9987	.9858	.9009	.5497									
	17						1.000	.9999	.9984	.9820	.8499									
	18							1.000	1.000	1.000	1.000									
19	0	.1351	.0144	.0042	.0011	.0001														
	1	.4203	.0829	.0310	.0104	.0008	.0000													
	2	.7054	.2369	.1113	.0462	.0055	.0004	.0000												
	3	.8850	.4551	.2631	.1332	.0230	.0022	.0001												
	4	.9648	.6733	.4654	.2822	.0696	.0096	.0006	.0000											
	5	.9914	.8369	.6678	.4739	.1629	.0318	.0031	.0001											
	6	.993	.9324	.8251	.6655	.3081	.0835	.0116	.0006											
	7	.9997	.9767	.9225	.8180	.4878	.1796	.0352	.0028	.0000										
	8	1.000	.9933	.9713	.9161	.6675	.3238	.0885	.0105	.0003										
	9		.9984	.9911	.9674	.8139	.5500	.1861	.0326	.0016										
	10		.9997	.9977	.9895	.9115	.6762	.3325	.0839	.0067	.0000									
	11		.9999	.9995	.9972	.9648	.8204	.5122	.1820	.0233	.0003									
	12		1.000	.9999	.9994	.9884	.9165	.6919	.3345	.0676	.0017									
	13			1.000	.9999	.9969	.9682	.8371	.5261	.1631	.0086									
	14				1.000	.9994	.9904	.9304	.7178	.3267	.0352									
	15					.9999	.9978	.9770	.8668	.5449	.1150									
	16					1.000	.9996	.9945	.9538	.7631	.2946									
	17						1.000	.9992	.9896	.9171	.5797									
	18							.9999	.9989	.9856	.8649									
	19							1.000	1.000	1.000	1.000									

**Tabla 10. (continuación) Sumas de probabilidades binomial  $\sum b(x;n,p)$**

n	r	<i>p</i>									
		.10	.20	.25	.30	.40	.50	.60	.70	.80	.90
20	0	.1216	.0115	.0032	.0008	.0000					
	1	.3917	.0692	.0243	.0076	.0005	.0000				
	2	.6769	.2061	.0913	.0355	.0036	.0002	.0000			
	3	.8670	.4114	.2252	.1071	.0160	.0013	.0001			
	4	.9568	.6296	.4148	.2375	.0510	.0059	.0003			
	5	.9887	.8042	.6172	.4164	.1256	.0207	.0016	.0000		
	6	.9976	.9133	.7858	.6080	.2500	.0577	.0065	.0003		
	7	.9996	.9679	.8982	.7723	.4159	.1316	.0210	.0013	.0000	
	8	.9999	.9900	.9591	.8867	.5956	.2517	.0565	.0051	.0001	
	9	1.000	.9974	.9861	.9520	.7553	.4119	.1275	.0171	.0006	
	10		.9994	.9961	.9829	.8725	.5881	.2447	.0480	.0026	.0000
	11		.9999	.9991	.9949	.9435	.7483	.4044	.1133	.0100	.0001
	12		1.000	.9998	.9987	.9790	.8684	.5841	.2277	.0321	.0004
	13			1.000	.9997	.9935	.9423	.7500	.3920	.0867	.0024
	14				1.000	.9984	.9793	.8744	.5836	.1958	.0113
	15					.9997	.9941	.9490	.7625	.3704	.0432
	16					1.000	.9987	.9840	.8929	.5886	.1330
	17						.9998	.9964	.9645	.7939	.3231
	18						1.000	.9995	.9924	.9308	.6083
	19							1.000	.9992	.9885	.8784
20								1.000	1.000	1.000	