

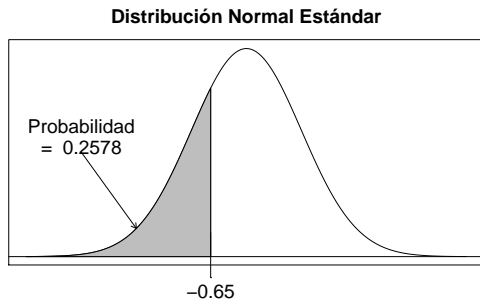
Apêndice A

Tabelas para algumas distribuições de probabilidade

Neste anexo apresentam-se tabelas para a função de distribuição acumulada das seguintes distribuições:

- Normal Padrão
- Qui-quadrado
- t -Student
- F de Fisher

Tabela da distribuição Normal Padrão

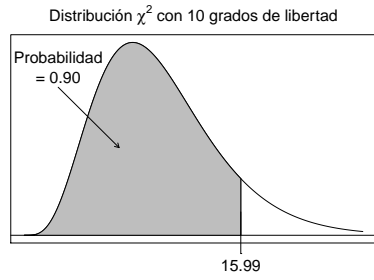


Exemplo:

$$P(Z < -0.65) = 0.2578$$

Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3.4	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002
-3.3	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0003
-3.2	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0005
-3.1	0.0010	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007
-3.0	0.0013	0.0013	0.0013	0.0012	0.0012	0.0011	0.0011	0.0011	0.0010	0.0010
-2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
-1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
-0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641

Tabela da distribuição χ^2



Exemplo:

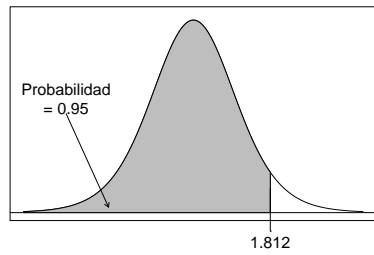
Para 10 graus de liberdade

$$P(\chi^2 < 15.99) = 0.90$$

gl	Probabilidades												
	0.005	0.01	0.025	0.05	0.1	0.25	0.5	0.75	0.9	0.95	0.975	0.99	0.995
1	0.00	0.00	0.00	0.00	0.02	0.10	0.46	1.32	2.71	3.84	5.02	6.63	7.88
2	0.01	0.02	0.05	0.10	0.21	0.57	1.39	2.77	4.61	5.99	7.38	9.21	10.60
3	0.07	0.12	0.22	0.35	0.58	1.21	2.37	4.11	6.25	7.82	9.35	11.35	12.84
4	0.21	0.30	0.48	0.71	1.06	1.92	3.36	5.38	7.78	9.49	11.14	13.28	14.86
5	0.41	0.55	0.83	1.14	1.61	2.67	4.35	6.63	9.24	11.07	12.83	15.09	16.75
6	0.68	0.87	1.24	1.64	2.20	3.46	5.35	7.84	10.64	12.59	14.45	16.81	18.55
7	0.99	1.24	1.69	2.17	2.83	4.25	6.35	9.04	12.02	14.07	16.01	18.48	20.28
8	1.34	1.65	2.18	2.73	3.49	5.07	7.34	10.22	13.36	15.51	17.54	20.09	21.95
9	1.74	2.09	2.70	3.33	4.17	5.90	8.34	11.39	14.68	16.92	19.02	21.67	23.59
10	2.16	2.56	3.25	3.94	4.87	6.74	9.34	12.55	15.99	18.31	20.48	23.21	25.19
11	2.60	3.05	3.82	4.58	5.58	7.58	10.34	13.70	17.27	19.68	21.92	24.73	26.76
12	3.07	3.57	4.40	5.23	6.30	8.44	11.34	14.85	18.55	21.03	23.34	26.22	28.30
13	3.56	4.11	5.01	5.89	7.04	9.30	12.34	15.98	19.81	22.36	24.74	27.69	29.82
14	4.08	4.66	5.63	6.57	7.79	10.16	13.34	17.12	21.06	23.68	26.12	29.14	31.32
15	4.60	5.23	6.26	7.26	8.55	11.04	14.34	18.25	22.31	25.00	27.49	30.58	32.80
16	5.14	5.81	6.91	7.96	9.31	11.91	15.34	19.37	23.54	26.30	28.84	32.00	34.27
17	5.70	6.41	7.56	8.67	10.09	12.79	16.34	20.49	24.77	27.59	30.19	33.41	35.72
18	6.26	7.01	8.23	9.39	10.87	13.68	17.34	21.61	25.99	28.87	31.53	34.80	37.16
19	6.84	7.63	8.91	10.12	11.65	14.56	18.34	22.72	27.20	30.14	32.85	36.19	38.58
20	7.43	8.26	9.59	10.85	12.44	15.45	19.34	23.83	28.41	31.41	34.17	37.57	40.00
21	8.03	8.90	10.28	11.59	13.24	16.34	20.34	24.93	29.61	32.67	35.48	38.93	41.40
22	8.64	9.54	10.98	12.34	14.04	17.24	21.34	26.04	30.81	33.92	36.78	40.29	42.80
23	9.26	10.20	11.69	13.09	14.85	18.14	22.34	27.14	32.01	35.17	38.08	41.64	44.18
24	9.89	10.86	12.40	13.85	15.66	19.04	23.34	28.24	33.20	36.41	39.36	42.98	45.56
25	10.52	11.52	13.12	14.61	16.47	19.94	24.34	29.34	34.38	37.65	40.65	44.31	46.93
26	11.16	12.20	13.84	15.38	17.29	20.84	25.34	30.43	35.56	38.88	41.92	45.64	48.29
27	11.81	12.88	14.57	16.15	18.11	21.75	26.34	31.53	36.74	40.11	43.20	46.96	49.65
28	12.46	13.56	15.31	16.93	18.94	22.66	27.34	32.62	37.92	41.34	44.46	48.28	50.99
29	13.12	14.26	16.05	17.71	19.77	23.57	28.34	33.71	39.09	42.56	45.72	49.59	52.34
30	13.79	14.95	16.79	18.49	20.60	24.48	29.34	34.80	40.26	43.77	46.98	50.89	53.67
31	14.46	15.65	17.54	19.28	21.43	25.39	30.34	35.89	41.42	44.98	48.23	52.19	55.00
32	15.13	16.36	18.29	20.07	22.27	26.30	31.34	36.97	42.59	46.19	49.48	53.49	56.33
33	15.81	17.07	19.05	20.87	23.11	27.22	32.34	38.06	43.74	47.40	50.73	54.78	57.65
34	16.50	17.79	19.81	21.66	23.95	28.14	33.34	39.14	44.90	48.60	51.97	56.06	58.96
35	17.19	18.51	20.57	22.46	24.80	29.05	34.34	40.22	46.06	49.80	53.20	57.34	60.27
36	17.89	19.23	21.34	23.27	25.64	29.97	35.34	41.30	47.21	51.00	54.44	58.62	61.58
37	18.59	19.96	22.11	24.07	26.49	30.89	36.34	42.38	48.36	52.19	55.67	59.89	62.88
38	19.29	20.69	22.88	24.88	27.34	31.82	37.34	43.46	49.51	53.38	56.90	61.16	64.18
39	20.00	21.43	23.65	25.70	28.20	32.74	38.34	44.54	50.66	54.57	58.12	62.43	65.48
40	20.71	22.16	24.43	26.51	29.05	33.66	39.34	45.62	51.80	55.76	59.34	63.69	66.77
41	21.42	22.91	25.21	27.33	29.91	34.59	40.34	46.69	52.95	56.94	60.56	64.95	68.05
42	22.14	23.65	26.00	28.14	30.77	35.51	41.34	47.77	54.09	58.12	61.78	66.21	69.34
43	22.86	24.40	26.79	28.96	31.62	36.44	42.34	48.84	55.23	59.30	62.99	67.46	70.62
44	23.58	25.15	27.57	29.79	32.49	37.36	43.34	49.91	56.37	60.48	64.20	68.71	71.89
45	24.31	25.90	28.37	30.61	33.35	38.29	44.34	50.98	57.51	61.66	65.41	69.96	73.17
46	25.04	26.66	29.16	31.44	34.22	39.22	45.34	52.06	58.64	62.83	66.62	71.20	74.44
47	25.77	27.42	29.96	32.27	35.08	40.15	46.34	53.13	59.77	64.00	67.82	72.44	75.70
48	26.51	28.18	30.75	33.10	35.95	41.08	47.34	54.20	60.91	65.17	69.02	73.68	76.97
49	27.25	28.94	31.55	33.93	36.82	42.01	48.34	55.27	62.04	66.34	70.22	74.92	78.23
50	27.99	29.71	32.36	34.76	37.69	42.94	49.34	56.33	63.17	67.50	71.42	76.15	79.49
60	35.53	37.48	40.48	43.19	46.46	52.29	59.34	66.98	74.40	79.08	83.30	88.38	91.95
70	43.27	45.44	48.76	51.74	55.33	61.70	69.33	77.58	85.53	90.53	95.02	100.42	104.22
80	51.17	53.54	57.15	60.39	64.28	71.14	79.33	88.13	96.58	101.88	106.63	112.33	116.32
90	59.20	61.75	65.65	69.13	73.29	80.62	89.33	98.65	107.56	113.14	118.14	124.12	128.30
100	67.33	70.06	74.22	77.93	82.36	90.13	99.33	109.14	118.50	124.34	129.56	135.81	140.17

Tabela da distribuição t-Student

Distribución t-Student con 10 graus de libertad



Exemplo:

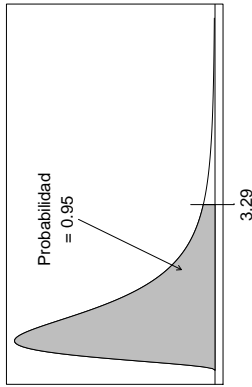
Para 10 graus de liberdade

$$P(T < 1.812) = 0.95$$

gl	Probabilidades												
	0.005	0.01	0.025	0.05	0.1	0.25	0.5	0.75	0.9	0.95	0.975	0.99	0.995
1	-63.657	-31.821	-12.706	-6.314	-3.078	-1.000	0.000	1.000	3.078	6.314	12.706	31.821	63.657
2	-9.925	-6.965	-4.303	-2.920	-1.886	-0.816	0.000	0.816	1.886	2.920	4.303	6.965	9.925
3	-5.841	-4.541	-3.182	-2.353	-1.638	-0.765	0.000	0.765	1.638	2.353	3.182	4.541	5.841
4	-4.604	-3.747	-2.776	-2.132	-1.533	-0.741	0.000	0.741	1.533	2.132	2.776	3.747	4.604
5	-4.032	-3.365	-2.571	-2.015	-1.476	-0.727	0.000	0.727	1.476	2.015	2.571	3.365	4.032
6	-3.707	-3.143	-2.447	-1.943	-1.440	-0.718	0.000	0.718	1.440	1.943	2.447	3.143	3.707
7	-3.499	-2.998	-2.365	-1.895	-1.415	-0.711	0.000	0.711	1.415	1.895	2.365	2.998	3.499
8	-3.355	-2.896	-2.306	-1.860	-1.397	-0.706	0.000	0.706	1.397	1.860	2.306	2.896	3.355
9	-3.250	-2.821	-2.262	-1.833	-1.383	-0.703	0.000	0.703	1.383	1.833	2.262	2.821	3.250
10	-3.169	-2.764	-2.228	-1.812	-1.372	-0.700	0.000	0.700	1.372	1.812	2.228	2.764	3.169
11	-3.106	-2.718	-2.201	-1.796	-1.363	-0.697	0.000	0.697	1.363	1.796	2.201	2.718	3.106
12	-3.055	-2.681	-2.179	-1.782	-1.356	-0.695	0.000	0.695	1.356	1.782	2.179	2.681	3.055
13	-3.012	-2.650	-2.160	-1.771	-1.350	-0.694	0.000	0.694	1.350	1.771	2.160	2.650	3.012
14	-2.977	-2.624	-2.145	-1.761	-1.345	-0.692	0.000	0.692	1.345	1.761	2.145	2.624	2.977
15	-2.947	-2.602	-2.131	-1.753	-1.341	-0.691	0.000	0.691	1.341	1.753	2.131	2.602	2.947
16	-2.921	-2.583	-2.120	-1.746	-1.337	-0.690	0.000	0.690	1.337	1.746	2.120	2.583	2.921
17	-2.898	-2.567	-2.110	-1.740	-1.333	-0.689	0.000	0.689	1.333	1.740	2.110	2.567	2.898
18	-2.878	-2.552	-2.101	-1.734	-1.330	-0.688	0.000	0.688	1.330	1.734	2.101	2.552	2.878
19	-2.861	-2.539	-2.093	-1.729	-1.328	-0.688	0.000	0.688	1.328	1.729	2.093	2.539	2.861
20	-2.845	-2.528	-2.086	-1.725	-1.325	-0.687	0.000	0.687	1.325	1.725	2.086	2.528	2.845
21	-2.831	-2.518	-2.080	-1.721	-1.323	-0.686	0.000	0.686	1.323	1.721	2.080	2.518	2.831
22	-2.819	-2.508	-2.074	-1.717	-1.321	-0.686	0.000	0.686	1.321	1.717	2.074	2.508	2.819
23	-2.807	-2.500	-2.069	-1.714	-1.319	-0.685	0.000	0.685	1.319	1.714	2.069	2.500	2.807
24	-2.797	-2.492	-2.064	-1.711	-1.318	-0.685	0.000	0.685	1.318	1.711	2.064	2.492	2.797
25	-2.787	-2.485	-2.060	-1.708	-1.316	-0.684	0.000	0.684	1.316	1.708	2.060	2.485	2.787
26	-2.779	-2.479	-2.056	-1.706	-1.315	-0.684	0.000	0.684	1.315	1.706	2.056	2.479	2.779
27	-2.771	-2.473	-2.052	-1.703	-1.314	-0.684	0.000	0.684	1.314	1.703	2.052	2.473	2.771
28	-2.763	-2.467	-2.048	-1.701	-1.313	-0.683	0.000	0.683	1.313	1.701	2.048	2.467	2.763
29	-2.756	-2.462	-2.045	-1.699	-1.311	-0.683	0.000	0.683	1.311	1.699	2.045	2.462	2.756
30	-2.750	-2.457	-2.042	-1.697	-1.310	-0.683	0.000	0.683	1.310	1.697	2.042	2.457	2.750
31	-2.744	-2.453	-2.040	-1.696	-1.309	-0.682	0.000	0.682	1.309	1.696	2.040	2.453	2.744
32	-2.738	-2.449	-2.037	-1.694	-1.309	-0.682	0.000	0.682	1.309	1.694	2.037	2.449	2.738
33	-2.733	-2.445	-2.035	-1.692	-1.308	-0.682	0.000	0.682	1.308	1.692	2.035	2.445	2.733
34	-2.728	-2.441	-2.032	-1.691	-1.307	-0.682	0.000	0.682	1.307	1.691	2.032	2.441	2.728
35	-2.724	-2.438	-2.030	-1.690	-1.306	-0.682	0.000	0.682	1.306	1.690	2.030	2.438	2.724
36	-2.719	-2.434	-2.028	-1.688	-1.306	-0.681	0.000	0.681	1.306	1.688	2.028	2.434	2.719
37	-2.715	-2.431	-2.026	-1.687	-1.305	-0.681	0.000	0.681	1.305	1.687	2.026	2.431	2.715
38	-2.712	-2.429	-2.024	-1.686	-1.304	-0.681	0.000	0.681	1.304	1.686	2.024	2.429	2.712
39	-2.708	-2.426	-2.023	-1.685	-1.304	-0.681	0.000	0.681	1.304	1.685	2.023	2.426	2.708
40	-2.704	-2.423	-2.021	-1.684	-1.303	-0.681	0.000	0.681	1.303	1.684	2.021	2.423	2.704
41	-2.701	-2.421	-2.020	-1.683	-1.303	-0.681	0.000	0.681	1.303	1.683	2.020	2.421	2.701
42	-2.698	-2.418	-2.018	-1.682	-1.302	-0.680	0.000	0.680	1.302	1.682	2.018	2.418	2.698
43	-2.695	-2.416	-2.017	-1.681	-1.302	-0.680	0.000	0.680	1.302	1.681	2.017	2.416	2.695
44	-2.692	-2.414	-2.015	-1.680	-1.301	-0.680	0.000	0.680	1.301	1.680	2.015	2.414	2.692
45	-2.690	-2.412	-2.014	-1.679	-1.301	-0.680	0.000	0.680	1.301	1.679	2.014	2.412	2.690
46	-2.687	-2.410	-2.013	-1.679	-1.300	-0.680	0.000	0.680	1.300	1.679	2.013	2.410	2.687
47	-2.685	-2.408	-2.012	-1.678	-1.300	-0.680	0.000	0.680	1.300	1.678	2.012	2.408	2.685
48	-2.682	-2.407	-2.011	-1.677	-1.299	-0.680	0.000	0.680	1.299	1.677	2.011	2.407	2.682
49	-2.680	-2.405	-2.010	-1.677	-1.299	-0.680	0.000	0.680	1.299	1.677	2.010	2.405	2.680
50	-2.678	-2.403	-2.009	-1.676	-1.299	-0.679	0.000	0.679	1.299	1.676	2.009	2.403	2.678
60	-2.660	-2.390	-2.000	-1.671	-1.296	-0.679	0.000	0.679	1.296	1.671	2.000	2.390	2.660
70	-2.648	-2.381	-1.994	-1.667	-1.294	-0.678	0.000	0.678	1.294	1.667	1.994	2.381	2.648
80	-2.639	-2.374	-1.990	-1.664	-1.292	-0.678	0.000	0.678	1.292	1.664	1.990	2.374	2.639
90	-2.632	-2.368	-1.987	-1.662	-1.291	-0.677	0.000	0.677	1.291	1.662	1.987	2.368	2.632
100	-2.626	-2.364	-1.984	-1.660	-1.290	-0.677	0.000	0.677	1.290	1.660	1.984	2.364	2.626

Tabela da distribuição F

Distribución F con 7 y 9 grados de libertad



Exemplo:

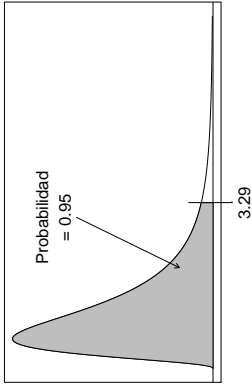
Para 7 graus de liberdade do numerador e 9 graus de liberdade do denominador

$$P(F < 3.29) = 0.95$$

GL denominador	graus de liberdade do Numerador															
Probabilidade	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	0.950	161.45	199.50	215.71	224.58	230.16	233.99	236.77	238.88	240.54	241.88	242.98	243.91	244.69	245.36	245.95
	0.975	647.79	799.50	864.16	899.58	921.85	937.11	948.22	956.66	963.28	968.63	973.03	976.71	979.84	982.53	984.87
	0.990	4052.18	4999.50	5403.35	5624.58	5763.65	5858.99	5928.36	5981.07	6022.47	6055.85	6083.32	6106.32	6125.86	6142.67	6157.28
	0.995	16210.72	19999.50	21614.74	22499.58	23055.80	23437.11	23714.57	23925.41	24091.00	24224.49	24334.36	24426.37	24504.54	24571.77	24630.21
2	0.950	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.41	19.41	19.42	19.42	19.43
	0.975	38.51	39.00	39.17	39.25	39.30	39.33	39.36	39.37	39.39	39.40	39.41	39.41	39.42	39.43	39.43
	0.990	98.50	99.00	99.17	99.25	99.30	99.33	99.36	99.37	99.39	99.40	99.41	99.42	99.42	99.43	99.43
	0.995	198.50	199.00	199.17	199.25	199.30	199.33	199.36	199.37	199.39	199.40	199.41	199.42	199.42	199.43	199.43
3	0.950	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.76	8.74	8.73	8.71	8.70
	0.975	17.44	16.04	15.44	15.10	14.88	14.73	14.62	14.54	14.47	14.42	14.37	14.34	14.30	14.28	14.25
	0.990	34.12	30.82	29.46	28.71	28.24	27.91	27.67	27.49	27.35	27.23	27.13	27.05	26.98	26.92	26.87
	0.995	55.55	49.80	47.47	46.19	45.39	44.84	44.43	44.13	43.88	43.69	43.52	43.39	43.27	43.17	43.08
4	0.950	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	5.89	5.87	5.86
	0.975	12.22	10.65	9.98	9.60	9.36	9.20	9.07	8.98	8.90	8.84	8.79	8.75	8.71	8.68	8.66
	0.990	21.20	18.00	16.69	15.98	15.52	15.21	14.98	14.80	14.66	14.55	14.45	14.37	14.31	14.25	14.20
	0.995	31.33	26.28	24.26	23.15	22.46	21.97	21.62	21.35	21.14	20.97	20.82	20.70	20.60	20.51	20.44
5	0.950	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.70	4.68	4.66	4.64	4.62
	0.975	10.01	8.43	7.76	7.39	7.15	6.98	6.85	6.76	6.68	6.62	6.57	6.52	6.49	6.46	6.43
	0.990	16.26	13.27	12.06	11.39	10.97	10.67	10.46	10.29	10.16	10.05	9.96	9.89	9.82	9.77	9.72
	0.995	22.78	18.31	16.53	15.56	14.94	14.51	14.20	13.96	13.77	13.62	13.49	13.38	13.29	13.21	13.15
6	0.950	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	3.98	3.96	3.94
	0.975	8.81	7.26	6.60	6.23	5.99	5.82	5.70	5.60	5.52	5.46	5.41	5.37	5.33	5.30	5.27
	0.990	13.75	10.92	9.78	9.15	8.75	8.47	8.26	8.10	7.98	7.87	7.79	7.72	7.66	7.60	7.56
	0.995	18.63	14.54	12.92	12.03	11.46	11.07	10.79	10.57	10.39	10.25	10.13	10.03	9.95	9.88	9.81
7	0.950	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	3.55	3.53	3.51
	0.975	8.07	6.54	5.89	5.52	5.29	5.12	4.99	4.90	4.82	4.76	4.71	4.67	4.64	4.60	4.57
	0.990	12.25	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72	6.62	6.54	6.47	6.41	6.36	6.31
	0.995	16.24	12.40	10.88	10.05	9.52	9.16	8.89	8.68	8.51	8.38	8.27	8.18	8.10	8.03	7.97
8	0.950	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	3.26	3.24	3.22
	0.975	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.36	4.30	4.24	4.20	4.16	4.13	4.10
	0.990	11.26	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.91	5.81	5.73	5.67	5.61	5.56	5.52
	0.995	14.69	11.04	9.60	8.81	8.30	7.95	7.69	7.50	7.34	7.21	7.10	7.01	6.94	6.87	6.81
9	0.950	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	3.05	3.03	3.01
	0.975	7.21	5.71	5.08	4.72	4.48	4.32	4.20	4.10	4.03	3.96	3.91	3.87	3.83	3.80	3.77
	0.990	10.56	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35	5.26	5.18	5.11	5.05	5.01	4.96
	0.995	13.61	10.11	8.72	7.96	7.47	7.13	6.88	6.69	6.54	6.42	6.31	6.23	6.15	6.09	6.03
10	0.950	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	2.89	2.86	2.85
	0.975	6.94	5.46	4.83	4.47	4.24	4.07	3.95	3.85	3.78	3.72	3.66	3.62	3.58	3.55	3.52
	0.990	10.04	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.94	4.85	4.77	4.71	4.65	4.60	4.56
	0.995	12.83	9.43	8.08	7.34	6.87	6.54	6.30	6.12	5.97	5.85	5.75	5.66	5.59	5.53	5.47

Tabela da distribuição F

Distribución F con 7 y 9 grados de libertad



Exemplo:

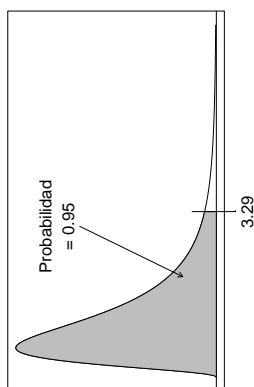
Para 7 graus de liberdade do numerador e 9 graus de liberdade do denominador

$$P(F < 3.29) = 0.95$$

		graus de liberdade do Numerador														
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	0.950	246.46	246.92	247.32	247.69	248.01	248.31	248.58	248.83	249.05	249.26	249.45	249.63	249.80	249.95	250.10
	0.975	986.92	988.73	990.35	991.80	993.10	994.29	995.36	996.35	997.25	998.08	998.85	999.56	1000.22	1000.84	1001.41
	0.990	6170.10	6181.43	6191.53	6200.58	6208.73	6216.12	6222.84	6228.99	6234.63	6239.83	6244.62	6249.07	6253.20	6257.05	6260.65
	0.995	24681.47	24726.80	24767.17	24803.35	24835.97	24865.52	24892.42	24917.00	24939.57	24960.34	24979.53	24997.32	25013.85	25029.25	25043.63
2	0.950	19.43	19.44	19.44	19.44	19.45	19.45	19.45	19.45	19.45	19.46	19.46	19.46	19.46	19.46	19.46
	0.975	39.44	39.44	39.44	39.44	39.45	39.45	39.45	39.45	39.46	39.46	39.46	39.46	39.46	39.46	39.46
	0.990	99.44	99.44	99.44	99.44	99.45	99.45	99.45	99.45	99.46	99.46	99.46	99.46	99.46	99.46	99.47
	0.995	199.44	199.44	199.44	199.45	199.45	199.45	199.45	199.45	199.46	199.46	199.46	199.46	199.46	199.47	199.47
3	0.950	8.69	8.68	8.67	8.67	8.66	8.65	8.65	8.64	8.64	8.63	8.63	8.63	8.62	8.62	8.62
	0.975	14.23	14.21	14.20	14.18	14.17	14.16	14.14	14.13	14.12	14.12	14.11	14.10	14.09	14.09	14.08
	0.990	26.83	26.79	26.75	26.72	26.69	26.66	26.62	26.62	26.60	26.58	26.56	26.55	26.52	26.50	26.50
	0.995	43.01	42.94	42.88	42.83	42.78	42.73	42.69	42.66	42.62	42.59	42.56	42.54	42.51	42.49	42.47
4	0.950	5.84	5.83	5.82	5.81	5.80	5.79	5.79	5.78	5.77	5.77	5.76	5.76	5.75	5.75	5.75
	0.975	8.63	8.61	8.59	8.58	8.56	8.55	8.53	8.52	8.51	8.50	8.49	8.48	8.47	8.47	8.46
	0.990	14.15	14.11	14.08	14.05	14.02	13.99	13.97	13.95	13.93	13.91	13.89	13.88	13.86	13.85	13.84
	0.995	20.37	20.31	20.26	20.21	20.17	20.13	20.09	20.06	20.03	20.00	19.98	19.95	19.93	19.91	19.89
5	0.950	4.60	4.59	4.58	4.57	4.56	4.55	4.54	4.53	4.52	4.52	4.51	4.51	4.50	4.50	4.50
	0.975	6.40	6.38	6.36	6.34	6.33	6.31	6.29	6.28	6.26	6.26	6.25	6.25	6.24	6.23	6.23
	0.990	9.68	9.64	9.61	9.58	9.55	9.53	9.51	9.49	9.47	9.45	9.43	9.42	9.40	9.39	9.38
	0.995	13.09	13.03	12.98	12.94	12.90	12.87	12.84	12.81	12.78	12.76	12.73	12.71	12.69	12.67	12.66
6	0.950	3.92	3.91	3.90	3.88	3.87	3.86	3.86	3.85	3.84	3.83	3.83	3.82	3.82	3.81	3.81
	0.975	5.24	5.22	5.20	5.18	5.17	5.15	5.14	5.13	5.12	5.11	5.10	5.09	5.08	5.07	5.07
	0.990	7.52	7.48	7.45	7.42	7.40	7.37	7.35	7.33	7.31	7.30	7.28	7.27	7.25	7.24	7.23
	0.995	9.76	9.71	9.66	9.62	9.59	9.56	9.53	9.50	9.47	9.45	9.43	9.41	9.39	9.37	9.36
7	0.950	3.49	3.48	3.47	3.46	3.44	3.43	3.43	3.42	3.41	3.40	3.40	3.39	3.39	3.38	3.38
	0.975	4.54	4.52	4.50	4.48	4.47	4.45	4.44	4.43	4.41	4.40	4.39	4.38	4.37	4.37	4.36
	0.990	6.28	6.24	6.21	6.18	6.16	6.13	6.11	6.09	6.07	6.06	6.04	6.03	6.02	6.00	5.99
	0.995	7.91	7.87	7.83	7.79	7.75	7.72	7.69	7.67	7.64	7.62	7.60	7.58	7.57	7.55	7.53
8	0.950	3.20	3.19	3.17	3.16	3.15	3.14	3.13	3.12	3.12	3.11	3.10	3.10	3.09	3.08	3.08
	0.975	4.08	4.05	4.03	4.02	4.00	3.98	3.97	3.96	3.95	3.94	3.93	3.92	3.91	3.90	3.89
	0.990	5.48	5.44	5.41	5.38	5.36	5.34	5.32	5.30	5.28	5.26	5.25	5.23	5.22	5.21	5.20
	0.995	6.76	6.72	6.68	6.64	6.61	6.58	6.55	6.53	6.50	6.48	6.46	6.44	6.43	6.41	6.40
9	0.950	2.99	2.97	2.96	2.95	2.94	2.93	2.92	2.91	2.90	2.89	2.89	2.88	2.87	2.87	2.86
	0.975	3.74	3.72	3.70	3.68	3.67	3.65	3.64	3.63	3.61	3.60	3.59	3.58	3.57	3.56	3.56
	0.990	4.92	4.89	4.86	4.83	4.81	4.79	4.77	4.75	4.73	4.71	4.70	4.68	4.67	4.66	4.65
	0.995	5.98	5.94	5.90	5.86	5.83	5.80	5.78	5.75	5.73	5.71	5.69	5.67	5.65	5.64	5.62
10	0.950	2.83	2.81	2.80	2.79	2.78	2.76	2.75	2.75	2.74	2.73	2.72	2.72	2.70	2.70	2.70
	0.975	3.50	3.47	3.45	3.44	3.42	3.40	3.39	3.38	3.37	3.35	3.34	3.34	3.33	3.32	3.31
	0.990	4.52	4.49	4.46	4.43	4.41	4.38	4.36	4.34	4.33	4.31	4.30	4.28	4.27	4.26	4.25
	0.995	5.42	5.38	5.34	5.31	5.27	5.25	5.22	5.20	5.17	5.15	5.13	5.12	5.10	5.08	5.07

Tabela da distribuição F

Distribución F con 7 y 9 grados de libertad



Exemplo:

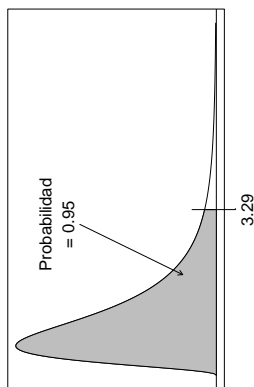
Para 7 graus de liberdade do numerador e 9 graus de liberdade do denominador

$$P(F < 3.29) = 0.95$$

GL denominador	Probabilidade	graus de liberdade do Numerador														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11	0.950	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	2.76	2.74	2.72
	0.975	6.72	5.26	4.63	4.28	4.04	3.88	3.76	3.66	3.59	3.53	3.47	3.43	3.39	3.36	3.33
	0.990	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63	4.54	4.46	4.40	4.34	4.29	4.25
	0.995	12.23	8.91	7.60	6.88	6.42	6.10	5.86	5.68	5.54	5.42	5.32	5.24	5.16	5.10	5.05
12	0.950	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	2.66	2.64	2.62
	0.975	6.55	5.10	4.47	4.12	3.89	3.73	3.61	3.51	3.44	3.37	3.32	3.28	3.24	3.21	3.18
	0.990	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.39	4.30	4.22	4.16	4.10	4.05	4.01
	0.995	11.75	8.51	7.23	6.52	6.07	5.76	5.52	5.35	5.20	5.09	4.99	4.91	4.84	4.77	4.72
13	0.950	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.63	2.60	2.58	2.55	2.53
	0.975	6.41	4.97	4.35	4.00	3.77	3.60	3.48	3.39	3.31	3.25	3.20	3.15	3.12	3.08	3.05
	0.990	9.07	6.70	5.74	5.21	4.86	4.62	4.44	4.30	4.19	4.10	4.02	3.96	3.91	3.86	3.82
	0.995	11.37	8.19	6.93	6.23	5.79	5.48	5.25	5.08	4.94	4.82	4.72	4.64	4.57	4.51	4.46
14	0.950	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.57	2.53	2.51	2.48	2.46
	0.975	6.30	4.86	4.24	3.89	3.66	3.50	3.38	3.29	3.21	3.15	3.09	3.05	3.01	2.98	2.95
	0.990	8.86	6.51	5.56	5.04	4.69	4.46	4.28	4.14	4.03	3.94	3.86	3.80	3.75	3.70	3.66
	0.995	11.06	7.92	6.68	6.00	5.56	5.26	5.03	4.86	4.72	4.60	4.51	4.43	4.36	4.30	4.25
15	0.950	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	2.45	2.42	2.40
	0.975	6.20	4.77	4.15	3.80	3.58	3.41	3.29	3.20	3.12	3.06	3.01	2.96	2.92	2.89	2.86
	0.990	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89	3.80	3.73	3.67	3.61	3.56	3.52
	0.995	10.80	7.70	6.48	5.80	5.37	5.07	4.85	4.67	4.54	4.42	4.33	4.25	4.18	4.12	4.07
16	0.950	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.46	2.42	2.40	2.37	2.35
	0.975	6.12	4.69	4.08	3.73	3.50	3.34	3.22	3.12	3.05	2.99	2.93	2.89	2.85	2.82	2.79
	0.990	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78	3.69	3.62	3.55	3.50	3.45	3.41
	0.995	10.58	7.51	6.30	5.64	5.21	4.91	4.69	4.52	4.38	4.27	4.18	4.10	4.03	3.97	3.92
17	0.950	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.41	2.38	2.35	2.33	2.31
	0.975	6.04	4.62	4.01	3.66	3.44	3.28	3.16	3.06	2.98	2.92	2.87	2.82	2.79	2.75	2.72
	0.990	8.40	6.11	5.18	4.67	4.34	4.10	3.93	3.79	3.68	3.59	3.52	3.46	3.40	3.35	3.31
	0.995	10.38	7.35	6.16	5.50	5.07	4.78	4.56	4.39	4.25	4.14	4.05	3.97	3.90	3.84	3.79
18	0.950	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.31	2.29	2.27
	0.975	5.98	4.56	3.95	3.61	3.38	3.22	3.10	3.01	2.93	2.87	2.81	2.77	2.73	2.70	2.67
	0.990	8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.60	3.51	3.43	3.37	3.32	3.27	3.23
	0.995	10.22	7.21	6.03	5.37	4.96	4.66	4.44	4.28	4.14	4.03	3.94	3.86	3.79	3.73	3.68
19	0.950	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.34	2.31	2.28	2.26	2.23
	0.975	5.92	4.51	3.90	3.56	3.33	3.17	3.05	2.96	2.88	2.82	2.76	2.72	2.68	2.65	2.62
	0.990	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52	3.43	3.36	3.30	3.24	3.19	3.15
	0.995	10.07	7.09	5.92	5.27	4.85	4.56	4.34	4.18	4.04	3.93	3.84	3.76	3.70	3.64	3.59
20	0.950	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	2.25	2.22	2.20
	0.975	5.87	4.46	3.86	3.51	3.29	3.13	3.01	2.91	2.84	2.77	2.72	2.68	2.64	2.60	2.57
	0.990	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46	3.37	3.29	3.23	3.18	3.13	3.09
	0.995	9.94	6.99	5.82	5.17	4.76	4.47	4.26	4.09	3.96	3.85	3.76	3.68	3.61	3.55	3.50

Tabela da distribuição F

Distribución F con 7 y 9 grados de libertad



Exemplo:

Para 7 graus de liberdade do numerador e 9 graus de liberdade do denominador

$$P(F < 3.29) = 0.95$$

GL denominador	Probabilidade	graus de liberdade do Numerador														
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
11	0.950	2.70	2.69	2.67	2.66	2.65	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.58	2.58	2.57
	0.975	3.30	3.28	3.26	3.24	3.23	3.21	3.20	3.18	3.17	3.16	3.15	3.14	3.13	3.13	3.12
	0.990	4.21	4.18	4.15	4.12	4.10	4.08	4.06	4.04	4.02	4.01	3.99	3.98	3.96	3.95	3.94
12	0.950	2.60	2.58	2.57	2.56	2.54	2.53	2.52	2.51	2.51	2.50	2.49	2.48	2.48	2.47	2.47
	0.975	3.15	3.13	3.11	3.09	3.07	3.06	3.04	3.03	3.02	3.01	3.00	2.99	2.98	2.97	2.96
	0.990	3.97	3.94	3.91	3.88	3.86	3.84	3.82	3.80	3.78	3.76	3.75	3.74	3.72	3.71	3.70
13	0.950	2.51	2.49	2.48	2.47	2.46	2.45	2.44	2.43	2.42	2.41	2.40	2.39	2.39	2.38	2.38
	0.975	3.03	3.00	2.98	2.96	2.95	2.93	2.92	2.91	2.89	2.88	2.87	2.86	2.85	2.85	2.84
	0.990	3.78	3.75	3.72	3.69	3.66	3.64	3.62	3.60	3.59	3.57	3.56	3.54	3.53	3.52	3.51
14	0.950	2.44	2.43	2.41	2.40	2.39	2.38	2.37	2.36	2.35	2.34	2.33	2.33	2.32	2.31	2.31
	0.975	2.92	2.90	2.88	2.86	2.84	2.83	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73
	0.990	3.62	3.59	3.56	3.53	3.51	3.48	3.46	3.44	3.43	3.41	3.40	3.38	3.37	3.36	3.35
15	0.950	2.38	2.37	2.35	2.34	2.33	2.32	2.31	2.30	2.29	2.28	2.27	2.26	2.25	2.25	2.25
	0.975	2.84	2.81	2.79	2.77	2.76	2.74	2.73	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64
	0.990	3.49	3.45	3.42	3.40	3.37	3.35	3.33	3.31	3.29	3.28	3.26	3.25	3.24	3.23	3.21
16	0.950	2.33	2.32	2.30	2.29	2.28	2.26	2.25	2.24	2.24	2.23	2.22	2.21	2.21	2.20	2.19
	0.975	2.76	2.74	2.72	2.70	2.68	2.67	2.65	2.64	2.63	2.61	2.60	2.59	2.58	2.58	2.57
	0.990	3.37	3.34	3.31	3.28	3.26	3.24	3.22	3.20	3.18	3.16	3.15	3.14	3.12	3.11	3.10
17	0.950	2.29	2.27	2.26	2.24	2.23	2.22	2.21	2.20	2.19	2.18	2.17	2.17	2.16	2.15	2.15
	0.975	2.70	2.67	2.65	2.63	2.62	2.60	2.59	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.50
	0.990	3.27	3.24	3.21	3.19	3.16	3.14	3.12	3.10	3.08	3.07	3.05	3.04	3.03	3.01	3.00
18	0.950	2.25	2.23	2.22	2.20	2.19	2.18	2.17	2.16	2.15	2.14	2.13	2.12	2.12	2.11	2.11
	0.975	2.64	2.62	2.60	2.58	2.56	2.54	2.53	2.52	2.50	2.49	2.48	2.47	2.46	2.45	2.44
	0.990	3.19	3.16	3.13	3.10	3.08	3.05	3.03	3.02	3.00	2.98	2.97	2.95	2.94	2.93	2.92
19	0.950	2.21	2.20	2.18	2.17	2.16	2.14	2.13	2.12	2.11	2.11	2.10	2.09	2.08	2.08	2.07
	0.975	2.59	2.57	2.55	2.53	2.51	2.49	2.48	2.46	2.45	2.44	2.43	2.42	2.41	2.40	2.39
	0.990	3.12	3.08	3.05	3.03	3.00	2.98	2.96	2.94	2.92	2.91	2.89	2.88	2.87	2.86	2.84
20	0.950	2.18	2.17	2.15	2.14	2.14	2.12	2.11	2.10	2.09	2.08	2.07	2.07	2.06	2.05	2.04
	0.975	2.55	2.52	2.50	2.48	2.46	2.45	2.43	2.42	2.41	2.40	2.39	2.38	2.37	2.36	2.35
	0.990	3.05	3.02	2.99	2.96	2.92	2.89	2.86	2.84	2.82	2.81	2.80	2.79	2.78	2.77	2.76
20	0.995	3.46	3.42	3.38	3.35	3.32	3.29	3.27	3.24	3.22	3.20	3.18	3.17	3.15	3.14	3.12

Apêndice B

Tabelas para Inferência Estatística

Neste anexo apresentam-se os possíveis casos de intervalos de confiança e de teste de hipótese estudados neste curso.

Tabela 1
Intervalos de confiança frequentes
1. Para apenas um parâmetro

Para a média μ	
<i>Caso</i>	<i>Intervalo</i>
1. σ é conhecida e X tem distribuição normal ou o tamanho da amostra n é suficientemente grande	$\bar{X} \pm z_{1-\alpha/2} \frac{\sigma}{\sqrt{n}}$
2. σ é desconhecida e X tem distribuição normal	$\bar{X} \pm t_{1-\alpha/2} \frac{S}{\sqrt{n}}$ la t tem $n - 1$ g.l.
3. σ é desconhecida e o tamanho de amostra n é suficientemente grande	$\bar{X} \pm z_{1-\alpha/2} \frac{S}{\sqrt{n}}$
Para a variancia σ^2	
<i>Caso</i>	<i>Intervalo</i>
X tem distribuição normal	$\left[\frac{(n-1)S^2}{\chi_{1-\alpha/2}^2}, \frac{(n-1)S^2}{\chi_{\alpha/2}^2} \right]$ la χ^2 tem $n - 1$ g.l.
Para a proporção p	
<i>Caso</i>	<i>Intervalo</i>
O tamanho da amostra n é suficientemente grande	$\bar{p} \pm z_{1-\alpha/2} \sqrt{\frac{\bar{p}\bar{q}}{n}}$
2. Para os parâmetros	
Para a diferença de médias $\mu_1 - \mu_2$	
<i>Caso</i>	<i>Intervalo</i>
1. σ_1 e σ_2 são conhecidas, as amostras são independentes e cada uma das populações tem distribuição normal ou tamanhos de amostra n_i suficientemente grandes	$\bar{X} - \bar{Y} \pm z_{1-\alpha/2} \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}$
2. σ_1 e σ_2 são desconhecidas porém iguais, as amostras são independentes e as populações tem distribuição normal	$\bar{X} - \bar{Y} \pm t_{1-\alpha/2} \sqrt{S_p^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}$ Con $S_p^2 = \frac{(n_1 - 1)S_1^2 + (n_2 - 1)S_2^2}{n_1 + n_2 - 2}$ e a t com $n_1 + n_2 - 2$ g.l.
3. σ_1 e σ_2 são desconhecidas porém diferentes, as amostras são independentes e as populações tem distribuição normal	$\bar{X} - \bar{Y} \pm t_{1-\alpha/2} \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}$ Os graus de liberdade são dados por v , onde $v = \frac{(S_1^2/n_1 + S_2^2/n_2)^2}{\frac{(S_1^2/n_1)^2}{n_1+1} + \frac{(S_2^2/n_2)^2}{n_2+1}} - 2$
4. σ_1 e σ_2 são desconhecidas, as amostras são independentes e têm tamanhos de amostra suficientemente grandes	$\bar{X} - \bar{Y} \pm z_{1-\alpha/2} \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}$
Para o quociente de variâncias σ_1^2/σ_2^2	
<i>Caso</i>	<i>Intervalo</i>
As amostras são independentes e as populações têm distribuição normal	$\left[\frac{S_1^2}{S_2^2 F_{1-\alpha/2}}, \frac{S_1^2}{S_2^2 F_{\alpha/2}} \right]$ a F tem $n_1 - 1$ e $n_2 - 1$ g.l.
Para a diferença de proporções $p_1 - p_2$	
<i>Caso</i>	<i>Intervalo</i>
As amostras são independentes e com tamanhos suficientemente grandes	$\bar{p}_1 - \bar{p}_2 \pm z_{1-\alpha/2} \sqrt{\frac{\bar{p}_1 \bar{q}_1}{n_1} + \frac{\bar{p}_2 \bar{q}_2}{n_2}}$

Tabela 2
Testes de Hipótese frequentes
1. Para apenas um parâmetro

$H_0 : \mu = \mu_0$			
H_1	Caso	Estatística de teste	Rejeitar H_0 se:
$\mu > \mu_0$ $\mu < \mu_0$ $\mu \neq \mu_0$	1. σ é conhecida e X tem distribuição normal e o tamanho de amostra n é suficientemente grande	$Z = \frac{\bar{X} - \mu_0}{\sigma/\sqrt{n}}$	$Z > z_{1-\alpha}$ $Z < z_\alpha = -z_{1-\alpha}$ $ Z > z_{1-\alpha/2}$
$\mu > \mu_0$ $\mu < \mu_0$ $\mu \neq \mu_0$	2. σ é desconhecida e X tem distribuição normal	$T = \frac{\bar{X} - \mu_0}{S/\sqrt{n}}$ la t tem $n - 1$ g.l.	$T > t_{1-\alpha}$ $T < t_\alpha = -t_{1-\alpha}$ $ T > t_{1-\alpha/2}$
$\mu > \mu_0$ $\mu < \mu_0$ $\mu \neq \mu_0$	3. σ é desconhecida e o tamanho de amostra n é suficientemente grande	$Z = \frac{\bar{X} - \mu_0}{S/\sqrt{n}}$	$Z > z_{1-\alpha}$ $Z < z_\alpha = -z_{1-\alpha}$ $ Z > z_{1-\alpha/2}$
$H_0 : \sigma^2 = \sigma_0^2$			
H_1	Caso	Estatística de teste	Rejeitar H_0 se:
$\sigma^2 > \sigma_0^2$ $\sigma^2 < \sigma_0^2$ $\sigma^2 \neq \sigma_0^2$	X tem distribuição normal	$\chi^2 = \frac{(n-1)S^2}{\sigma_0^2}$ la χ^2 tem $n - 1$ g.l.	$\chi^2 > \chi_{1-\alpha}^2$ $\chi^2 < \chi_\alpha^2$ $\chi^2 < \chi_{\alpha/2}^2$ o $\chi^2 > \chi_{1-\alpha/2}^2$
$H_0 : p = p_0$			
H_1	Caso	Estatística de teste	Rejeitar H_0 se:
$p > p_0$ $p < p_0$ $p \neq p_0$	O tamanho de amostra n é suficientemente grande	$Z = \frac{\bar{p} - p_0}{\sqrt{\frac{p_0 q_0}{n}}}$	$Z > z_{1-\alpha}$ $Z < z_\alpha = -z_{1-\alpha}$ $ Z > z_{1-\alpha/2}$
2. Sobre os parâmetros			
$H_0 : \mu_1 = \mu_2$			
H_1	Caso	Estatística de teste	Rejeitar H_0 se:
$\mu_1 - \mu_2 > 0$ $\mu_1 - \mu_2 < 0$ $\mu_1 - \mu_2 \neq 0$	1. σ_1 e σ_2 são conhecidas, as amostras são independentes e cada uma das populações tem distribuição normal ou os tamanhos de amostra n_i são suficientemente grandes	$Z = \frac{\bar{X} - \bar{Y}}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$	$Z > z_{1-\alpha}$ $Z < z_\alpha = -z_{1-\alpha}$ $ Z > z_{1-\alpha/2}$
$\mu_1 - \mu_2 > 0$ $\mu_1 - \mu_2 < 0$ $\mu_1 - \mu_2 \neq 0$	2. σ_1 e σ_2 são desconhecidas porém iguais, as amostras são independentes e as populações têm distribuição normal	$T = \frac{\bar{X} - \bar{Y}}{\sqrt{S_p^2 \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}}$ Con $S_p^2 = \frac{(n_1 - 1)S_1^2 + (n_2 - 1)S_2^2}{n_1 + n_2 - 2}$ e a t é com $n_1 + n_2 - 2$ g.l.	$T > t_{1-\alpha}$ $T < t_\alpha = -t_{1-\alpha}$ $ T > t_{1-\alpha/2}$
$\mu_1 - \mu_2 > 0$ $\mu_1 - \mu_2 < 0$ $\mu_1 - \mu_2 \neq 0$	3. σ_1 e σ_2 são desconhecidas porém diferentes, as amostras são independentes e as populações têm distribuição normal	$T = \frac{\bar{X} - \bar{Y}}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}}$ e a t é com v g.l. con $v = \frac{(S_1^2/n_1 + S_2^2/n_2)^2}{\frac{(S_1^2/n_1)^2}{n_1+1} + \frac{(S_2^2/n_2)^2}{n_2+1}} - 2$	$T > t_{1-\alpha}$ $T < t_\alpha = -t_{1-\alpha}$ $ T > t_{1-\alpha/2}$
$\mu_1 - \mu_2 > 0$ $\mu_1 - \mu_2 < 0$ $\mu_1 - \mu_2 \neq 0$	4. σ_1 e σ_2 são desconhecidas, as amostras são independentes e têm tamanhos suficientemente grandes	$Z = \frac{\bar{X} - \bar{Y}}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}}$	$Z > z_{1-\alpha}$ $Z < z_\alpha = -z_{1-\alpha}$ $ Z > z_{1-\alpha/2}$
$H_0 : \sigma_1^2 = \sigma_2^2$			
H_1	Caso	Estatística de teste	Rejeitar H_0 se:
$\sigma_1^2 > \sigma_2^2$ $\sigma_1^2 < \sigma_2^2$ $\sigma_1^2 \neq \sigma_2^2$	As amostras são independentes e as populações têm distribuição normal	$F = \frac{S_1^2}{S_2^2}$ e a F é com $n_1 - 1$ e $n_2 - 1$ g.l.	$F > F_{1-\alpha}$ $F < F_\alpha$ $F < F_{\alpha/2}$ o $F > F_{1-\alpha/2}$
$H_0 : p_1 = p_2$			
H_1	Caso	Estatística de teste	Rejeitar H_0 se:
$p_1 > p_2$ $p_1 < p_2$ $p_1 \neq p_2$	As amostras são independentes e os tamanhos de amostra n_i são suficientemente grandes	$Z = \frac{\bar{p}_1 - \bar{p}_2}{\sqrt{\bar{p}\bar{q} \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}}$ con $\bar{p} = (n_1\bar{p}_1 + n_2\bar{p}_2)/(n_1 + n_2)$	$Z > z_{1-\alpha}$ $Z < z_\alpha = -z_{1-\alpha}$ $ Z > z_{1-\alpha/2}$