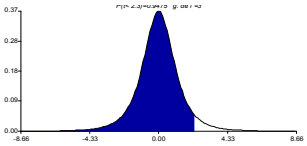
$$P(T \le t_0) = 1 - \alpha$$



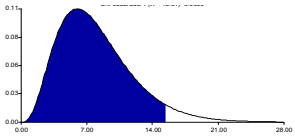
(C)

Valores de una variable aleatoria t-student para la probabilidad acumulada indicada en la primera fila según grados de libertad

Tabla generada en excel por prof. Sr. Rosamel Sáez Espinoza

g. de l.	0.9995	0.999	0.995	0.99	0.975	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55
1	636.5776	318.2888	63.6559	31.8210	12.7062	6.3137	3.0777	1.9626	1.3764	1.0000	0.7265	0.5095	0.3249	0.1584
2	31.5998	22.3285	9.9250	6.9645	4.3027	2.9200	1.8856	1.3862	1.0607	0.8165	0.6172	0.4447	0.2887	0.1421
3	12.9244	10.2143	5.8408	4.5407	3.1824	2.3534	1.6377	1.2498	0.9785	0.7649	0.5844	0.4242	0.2767	0.1366
4	8.6101	7.1729	4.6041	3.7469	2.7765	2.1318	1.5332	1.1896	0.9410	0.7407	0.5686	0.4142	0.2707	0.1338
5	6.8685	5.8935	4.0321	3.3649	2.5706	2.0150	1.4759	1.1558	0.9195	0.7267	0.5594	0.4082	0.2672	0.1322
6	5.9587	5.2075	3.7074	3.1427	2.4469	1.9432	1.4398	1.1342	0.9057	0.7176	0.5534	0.4043	0.2648	0.1311
7	5.4081	4.7853	3.4995	2.9979	2.3646	1.8946	1.4149	1.1192	0.8960	0.7111	0.5491	0.4015	0.2632	0.1303
8	5.0414	4.5008	3.3554	2.8965	2.3060	1.8595	1.3968	1.1081	0.8889	0.7064	0.5459	0.3995	0.2619	0.1297
9	4.7809	4.2969	3.2498	2.8214	2.2622	1.8331	1.3830	1.0997	0.8834	0.7027	0.5435	0.3979	0.2610	0.1293
10	4.5868	4.1437	3.1693	2.7638	2.2281	1.8125	1.3722	1.0931	0.8791	0.6998	0.5415	0.3966	0.2602	0.1289
11	4.4369	4.0248	3.1058	2.7181	2.2010	1.7959	1.3634	1.0877	0.8755	0.6974	0.5399	0.3956	0.2596	0.1286
12	4.3178	3.9296	3.0545	2.6810	2.1788	1.7823	1.3562	1.0832	0.8726	0.6955	0.5386	0.3947	0.2590	0.1283
13	4.2209	3.8520	3.0123	2.6503	2.1604	1.7709	1.3502	1.0795	0.8702	0.6938	0.5375	0.3940	0.2586	0.1281
14	4.1403	3.7874	2.9768	2.6245	2.1448	1.7613	1.3450	1.0763	0.8681	0.6924	0.5366	0.3933	0.2582	0.1280
15	4.0728	3.7329	2.9467	2.6025	2.1315	1.7531	1.3406	1.0735	0.8662	0.6912	0.5357	0.3928	0.2579	0.1278
16	4.0149	3.6861	2.9208	2.5835	2.1199	1.7459	1.3368	1.0711	0.8647	0.6901	0.5350	0.3923	0.2576	0.1277
17	3.9651	3.6458	2.8982	2.5669	2.1098	1.7396	1.3334	1.0690	0.8633	0.6892	0.5344	0.3919	0.2573	0.1276
18	3.9217	3.6105	2.8784	2.5524	2.1009	1.7341	1.3304	1.0672	0.8620	0.6884	0.5338	0.3915	0.2571	0.1274
19	3.8833	3.5793	2.8609	2.5395	2.0930	1.7291	1.3277	1.0655	0.8610	0.6876	0.5333	0.3912	0.2569	0.1274
20	3.8496	3.5518	2.8453	2.5280	2.0860	1.7247	1.3253	1.0640	0.8600	0.6870	0.5329	0.3909	0.2567	0.1273
21	3.8193	3.5271	2.8314	2.5176	2.0796	1.7207	1.3232	1.0627	0.8591	0.6864	0.5325	0.3906	0.2566	0.1272
22	3.7922	3.5050	2.8188	2.5083	2.0739	1.7171	1.3212	1.0614	0.8583	0.6858	0.5321	0.3904	0.2564	0.1271
23	3.7676	3.4850	2.8073	2.4999	2.0687	1.7139	1.3195	1.0603	0.8575	0.6853	0.5317	0.3902	0.2563	0.1271
24	3.7454	3.4668	2.7970	2.4922	2.0639	1.7109	1.3178	1.0593	0.8569	0.6848	0.5314	0.3900	0.2562	0.1270
25	3.7251	3.4502	2.7874	2.4851	2.0595	1.7081	1.3163	1.0584	0.8562	0.6844	0.5312	0.3898	0.2561	0.1269
26	3.7067	3.4350	2.7787	2.4786	2.0555	1.7056	1.3150	1.0575	0.8557	0.6840	0.5309	0.3896	0.2560	0.1269
27	3.6895	3.4210	2.7707	2.4727	2.0518	1.7033	1.3137	1.0567	0.8551	0.6837	0.5306	0.3894	0.2559	0.1268
28	3.6739	3.4082	2.7633	2.4671	2.0484	1.7011	1.3125	1.0560	0.8546	0.6834	0.5304	0.3893	0.2558	0.1268
29	3.6595	3.3963	2.7564	2.4620	2.0452	1.6991	1.3114	1.0553	0.8542	0.6830	0.5302	0.3892	0.2557	0.1268
30	3.6460	3.3852	2.7500	2.4573	2.0423	1.6973	1.3104	1.0547	0.8538	0.6828	0.5300	0.3890	0.2556	0.1267
31	3.6335	3.3749	2.7440	2.4528	2.0395	1.6955	1.3095	1.0541	0.8534	0.6825	0.5298	0.3889	0.2555	0.1267
32	3.6218	3.3653	2.7385	2.4487	2.0369	1.6939	1.3086	1.0535	0.8530	0.6822	0.5297	0.3888	0.2555	0.1267
33	3.6109	3.3563	2.7333	2.4448	2.0345	1.6924	1.3077	1.0530	0.8526	0.6820	0.5295	0.3887	0.2554	0.1266
34	3.6007	3.3480	2.7284	2.4411	2.0322	1.6909	1.3070	1.0525	0.8523	0.6818	0.5294	0.3886	0.2553	0.1266
35	3.5911	3.3400	2.7238	2.4377	2.0301	1.6896	1.3062	1.0520	0.8520	0.6816	0.5292	0.3885	0.2553	0.1266
36	3.5821	3.3326	2.7195	2.4345	2.0281	1.6883	1.3055	1.0516	0.8517	0.6814	0.5291	0.3884	0.2552	0.1266
37	3.5737	3.3256	2.7154	2.4314	2.0262	1.6871	1.3049	1.0512	0.8514	0.6812	0.5289	0.3883	0.2552	0.1265
38	3.5657	3.3190	2.7116	2.4286	2.0244	1.6860	1.3042	1.0508	0.8512	0.6810	0.5288	0.3882	0.2551	0.1265
39	3.5581	3.3127	2.7079	2.4258	2.0227	1.6849	1.3036	1.0504	0.8509	0.6808	0.5287	0.3882	0.2551	0.1265
40	3.5510	3.3069	2.7045	2.4233	2.0211	1.6839	1.3031	1.0500	0.8507	0.6807	0.5286	0.3881	0.2550	0.1265
41	3.5443	3.3012	2.7012	2.4208	2.0195	1.6829	1.3025	1.0497	0.8505	0.6805	0.5285	0.3880	0.2550	0.1264
42	3.5377	3.2959	2.6981	2.4185	2.0181	1.6820	1.3020	1.0494	0.8503	0.6804	0.5284	0.3880	0.2550	0.1264
43	3.5316	3.2909	2.6951	2.4163	2.0167	1.6811	1.3016	1.0491	0.8501	0.6802	0.5283	0.3879	0.2549	0.1264
44	3.5258	3.2861	2.6923	2.4141	2.0154	1.6802	1.3011	1.0488	0.8499	0.6801	0.5282	0.3878	0.2549	0.1264
45	3.5203	3.2815	2.6896	2.4121	2.0141	1.6794	1.3007	1.0485	0.8497	0.6800	0.5281	0.3878	0.2549	0.1264
46	3.5149	3.2771	2.6870	2.4102	2.0129	1.6787	1.3002	1.0482	0.8495	0.6799	0.5281	0.3877	0.2548	0.1264
47	3.5099	3.2729	2.6846	2.4083	2.0117	1.6779	1.2998	1.0480	0.8493	0.6797	0.5280	0.3877	0.2548	0.1263
48	3.5050	3.2689	2.6822	2.4066	2.0106	1.6772	1.2994	1.0478	0.8492	0.6796	0.5279	0.3876	0.2548	0.1263
49	3.5005	3.2651	2.6800	2.4049	2.0096	1.6766	1.2991	1.0475	0.8490	0.6795	0.5278	0.3876	0.2547	0.1263
50	3.4960	3.2614	2.6778	2.4033	2.0086	1.6759	1.2987	1.0473	0.8489	0.6794	0.5278	0.3875	0.2547	0.1263
> 50	3.290	3.100	2.580	2.330	1.960	1.640	1.280	1.030	0.840	0.670	0.520	0.380	0.250	0.120

Distribución Chi-Cuadrado $P(X^2 < x2)$



(D)

g. de l.	0.995	0.99	0.975	0.95	0.9	0.1	0.05	0.025	0.01	0.005
1	7.8794	6.6349	5.0239	3.8415	2.7055	0.0158	0.0039	0.0010	0.0002	0.0000
2	10.5965	9.2104	7.3778	5.9915	4.6052	0.2107	0.1026	0.0506	0.0201	0.0100
3	12.8381	11.3449	9.3484	7.8147	6.2514	0.5844	0.3518	0.2158	0.1148	0.0717
4	14.8602	13.2767	11.1433	9.4877	7.7794	1.0636	0.7107	0.4844	0.2971	0.2070
5	16.7496	15.0863	12.8325	11.0705	9.2363	1.6103	1.1455	0.8312	0.5543	0.4118
6	18.5475	16.8119	14.4494	12.5916	10.6446	2.2041	1.6354	1.2373	0.8721	0.6757
7	20.2777	18.4753	16.0128	14.0671	12.0170	2.8331	2.1673	1.6899	1.2390	0.9893
8	21.9549	20.0902	17.5345	15.5073	13.3616	3.4895	2.7326	2.1797	1.6465	1.3444
9	23.5893	21.6660	19.0228	16.9190	14.6837	4.1682	3.3251	2.7004	2.0879	1.7349
10	25.1881	23.2093	20.4832	18.3070	15.9872	4.8652	3.9403	3.2470	2.5582	2.1558
11	26.7569	24.7250	21.9200	19.6752	17.2750	5.5778	4.5748	3.8157	3.0535	2.6032
12	28.2997	26.2170	23.3367	21.0261	18.5493	6.3038	5.2260	4.4038	3.5706	3.0738
13	29.8193	27.6882	24.7356	22.3620	19.8119	7.0415	5.8919	5.0087	4.1069	3.5650
14	31.3194	29.1412	26.1189	23.6848	21.0641	7.7895	6.5706	5.6287	4.6604	4.0747
15	32.8015	30.5780	27.4884	24.9958	22.3071	8.5468	7.2609	6.2621	5.2294	4.6009
16	34.2671	31.9999	28.8453	26.2962	23.5418	9.3122	7.9616	6.9077	5.8122	5.1422
17	35.7184	33.4087	30.1910	27.5871	24.7690	10.0852	8.6718	7.5642	6.4077	5.6973
18	37.1564	34.8052	31.5264	28.8693	25.9894	10.8649	9.3904	8.2307	7.0149	6.2648
19	38.5821	36.1908	32.8523	30.1435	27.2036	11.6509	10.1170	8.9065	7.6327	6.8439
20	39.9969	37.5663	34.1696	31.4104	28.4120	12.4426	10.8508	9.5908	8.2604	7.4338
21	41.4009	38.9322	35.4789	32.6706	29.6151	13.2396	11.5913	10.2829	8.8972	8.0336
22	42.7957	40.2894	36.7807	33.9245	30.8133	14.0415	12.3380	10.9823	9.5425	8.6427
23	44.1814	41.6383	38.0756	35.1725	32.0069	14.8480	13.0905	11.6885	10.1957	9.2604
24	45.5584	42.9798	39.3641	36.4150	33.1962	15.6587	13.8484	12.4011	10.8563	9.8862
25	46.9280	44.3140	40.6465	37.6525	34.3816	16.4734	14.6114	13.1197	11.5240	10.5196
26	48.2898	45.6416	41.9231	38.8851	35.5632	17.2919	15.3792	13.8439	12.1982	11.1602
27	49.6450	46.9628	43.1945	40.1133	36.7412	18.1139	16.1514	14.5734	12.8785	11.8077
28	50.9936	48.2782	44.4608	41.3372	37.9159	18.9392	16.9279	15.3079	13.5647	12.4613
29	52.3355	49.5878	45.7223	42.5569	39.0875	19.7677	17.7084	16.0471	14.2564	13.1211
30	53.6719	50.8922	46.9792	43.7730	40.2560	20.5992	18.4927	16.7908	14.9535	13.7867
31	55.0025	52.1914	48.2319	44.9853	41.4217	21.4336	19.2806	17.5387	15.6555	14.4577
32	56.3280	53.4857	49.4804	46.1942	42.5847	22.2706	20.0719	18.2908	16.3622	15.1340
33	57.6483	54.7754	50.7251	47.3999	43.7452	23.1102	20.8665	19.0467	17.0735	15.8152
34	58.9637	56.0609	51.9660	48.6024	44.9032	23.9522	21.6643	19.8062	17.7891	16.5013
35	60.2746	57.3420	53.2033	49.8018	46.0588	24.7966	22.4650	20.5694	18.5089	17.1917
36	61.5811	58.6192	54.4373	50.9985	47.2122	25.6433	23.2686	21.3359	19.2326	17.8868
37	62.8832	59.8926	55.6680	52.1923	48.3634	26.4921	24.0749	22.1056	19.9603	18.5859
38	64.1812	61.1620	56.8955	53.3835	49.5126	27.3430	24.8839	22.8785	20.6914	19.2888
39	65.4753	62.4281	58.1201	54.5722	50.6598	28.1958	25.6954	23.6543	21.4261	19.9958
40	66.7660	63.6908	59.3417	55.7585	51.8050	29.0505	26.5093	24.4331	22.1642	20.7066
50	79.4898	76.1538	71.4202	67.5048	63.1671	37.6886	34.7642	32.3574	29.7067	27.9908
60	91.9518	88.3794	83.2977	79.0820	74.3970	46.4589	43.1880	40.4817	37.4848	35.5344
70	104.2148	100.4251	95.0231	90.5313	85.5270	55.3289	51.7393	48.7575	45.4417	43.2753
80	116.3209	112.3288	106.6285	101.8795	96.5782	64.2778	60.3915	57.1532	53.5400	51.1719
90	128.2987	124.1162	118.1359	113.1452	107.5650	73.2911	69.1260	65.6466	61.7540	59.1963
100	140.1697	135.8069	129.5613	124.3421	118.4980	82.3581	77.9294	74.2219	70.0650	67.3275
150	198.3599	193.2075	185.8004	179.5806	172.5812	128.2750	122.6918	117.9846	112.6676	109.1423
200	255.2638	249.4452	241.0578	233.9942	226.0210	174.8353	168.2785	162.7280	156.4321	152.2408
300	366.8439	359.9064	349.8745	341.3951	331.7885	269.0679	260.8781	253.9122	245.9727	240.6631
400	476.6068	468.7244	457.3056	447.6324	436.6490	364.2074	354.6410	346.4817	337.1552	330.9029
500	585.2060	576.4931	563.8514	553.1269	540.9303	459.9261	449.1467	439.9360	429.3874	422.3034

Cuando los grados de libertad son grandes considere: $\lim_{k\to\infty} \chi^2_k(x) = N_{(k,\sqrt{2k})}(x)$