

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										Espinoza			
1	g. de I.	0.9995	0.999	0.995	0.99	0.975	0.95	0.9	0.85	8.0	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
Name	6	5.9587	5.2075	3.7074		2.4469		1.4398		0.9057		0.5534	0.4043		0.1311
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> 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															
	> 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

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2	g. de I.	0.995	0.99	0.975	0.95	0.9	0.1	0.05	0.025	0.01	0.005
1	1	7.8794	6.6349	5.0239	3.8415	2.7055	0.0158	0.0039	0.0010	0.0002	0.0000
4 14,8602 13,2767 11,1433 9,477 7,7794 1,0638 0,70707 0,4814 0,2271 0,2070 5 16,7496 15,0863 12,8325 11,0705 9,2363 1,1635 0,4312 0,5643 0,4108 6 18,475 16,8119 14,4444 12,2616 10,0446 2,2041 1,5354 1,2373 0,8777 7 20,2777 18,4753 10,1028 14,0671 12,0170 2,8311 2,1703 1,8899 1,2300 0,8981 8 21,9499 20,002 15,5344 15,0073 13,3310 3,4802 2,7204 2,0879 1,7349 10 25,1881 23,3033 2,0482 18,3070 16,8822 3,4803 3,3261 2,7004 2,0879 1,7449 11 25,7669 2,7200 2,1350 18,5433 3,3134 3,157,343 3,3361 3,0083 3,5650 12 28,997 26,1122 23,1583 2,7686 2,23620 <td< th=""><th>2</th><th>10.5965</th><th>9.2104</th><th>7.3778</th><th>5.9915</th><th>4.6052</th><th>0.2107</th><th>0.1026</th><th>0.0506</th><th>0.0201</th><th>0.0100</th></td<>	2	10.5965	9.2104	7.3778	5.9915	4.6052	0.2107	0.1026	0.0506	0.0201	0.0100
5 16.7496 15.0863 12.8325 11.0705 9.2383 1.6103 11.455 0.8312 0.5643 0.4118 6 18.8475 16.8119 14.6494 12.9616 10.9648 2.2041 1.5854 12.373 0.8721 0.8793 8 21.9549 20.0802 17.5345 15.5073 13.3816 3.4895 2.7326 2.1797 1.6465 13.444 9 23.5883 21.8000 19.0228 16.9190 14.8837 4.1662 3.3403 3.2470 2.5682 2.1569 10 25.1881 23.2003 20.4832 18.3070 15.9872 4.8662 3.9403 3.2470 2.5682 2.1569 11 26.7690 24.7280 21.9200 18.8548 2.0386 5.2280 4.4083 3.5760 2.5682 2.9620 19.8191 7.0415 5.8819 5.0087 4.1099 3.5865 2.2021 15.5448 3.3121 4.0994 3.56821 3.2406 4.0092 3.5460 4.009	3	12.8381	11.3449	9.3484	7.8147	6.2514	0.5844	0.3518	0.2158	0.1148	0.0717
6 18.8475 16.8119 14.4494 12.5916 10.6446 2.2041 1.8354 1.2373 0.8721 0.6757 7 20.2777 18.4753 16.0728 14.0671 12.0170 2.8331 2.1673 1.6869 1.2380 0.3444 9 23.8893 21.6660 10.0228 16.9190 14.6837 4.1882 3.3251 2.7004 2.0879 17.3449 10 25.7866 24.7250 21.9307 16.9757 15.7772 4.8652 3.8403 3.2470 2.5682 2.1558 11 26.7569 24.7250 21.9307 21.0261 18.5436 6.3038 6.2260 4.4038 3.5766 3.0736 13 29.8193 27.8882 24.7358 22.3820 19.9119 7.0415 6.8216 5.0007 4.1099 3.5651 14 31.3194 20.1412 26.1182 23.9820 19.9191 7.0415 6.8206 7.0009 6.2271 4.1099 3.5651 16	4	14.8602	13.2767	11.1433	9.4877	7.7794	1.0636	0.7107	0.4844	0.2971	0.2070
7 20.2777 18.4763 10.0128 14.0671 12.0170 2.8331 2.1673 1.8890 1.2300 0.9883 8 21.9549 20.0902 17.5345 15.0707 13.3616 3.4895 2.7266 2.1797 1.6465 1.3440 9 23.8803 21.6600 19.0228 18.9107 14.6837 4.1862 3.3261 2.7004 2.6879 1.7440 10 25.1881 23.2033 20.4832 19.3070 15.9872 4.8652 3.9403 3.2470 2.5582 2.1581 11 26.7569 24.7250 2.3307 21.0261 18.5493 6.0088 4.5788 3.1673 3.0535 2.2602 12 28.9193 27.8882 24.7360 22.3801 19.8119 7.0415 6.5706 5.0267 4.0009 3.0738 14 31.3194 29.1412 21.8848 24.9958 22.3071 8.5408 7.2009 6.221 5.2244 4.0008 15 32.3174	5	16.7496	15.0863	12.8325	11.0705	9.2363	1.6103	1.1455	0.8312	0.5543	0.4118
8	6	18.5475	16.8119	14.4494	12.5916	10.6446	2.2041	1.6354	1.2373	0.8721	0.6757
9	7	20.2777	18.4753	16.0128	14.0671	12.0170	2.8331	2.1673	1.6899	1.2390	0.9893
10	8	21.9549	20.0902	17.5345	15.5073	13.3616	3.4895	2.7326	2.1797	1.6465	1.3444
11	9	23.5893	21.6660	19.0228	16.9190	14.6837	4.1682	3.3251	2.7004	2.0879	1.7349
12	10	25.1881	23.2093	20.4832	18.3070	15.9872	4.8652	3.9403	3.2470	2.5582	2.1558
13	11	26.7569	24.7250	21.9200	19.6752	17.2750	5.5778	4.5748	3.8157	3.0535	2.6032
14	12	28.2997	26.2170	23.3367	21.0261	18.5493	6.3038	5.2260	4.4038	3.5706	3.0738
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 33.4067 30.1910 27.58671 24.7690 10.0852 8.6718 7.5642 6.4077 5.6963 19 36.821 36.1908 32.8523 30.1435 27.2036 11.6509 10.1170 8.9665 7.6327 6.8439 20 39.9969 37.5663 34.1696 31.4104 28.4120 12.4426 10.8508 9.5906 7.6327 6.8439 21 41.4009 38.9322 36.7897 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 44.5144 <t< th=""><th>13</th><td>29.8193</td><td>27.6882</td><td>24.7356</td><td>22.3620</td><td>19.8119</td><td>7.0415</td><td>5.8919</td><td>5.0087</td><td>4.1069</td><td>3.5650</td></t<>	13	29.8193	27.6882	24.7356	22.3620	19.8119	7.0415	5.8919	5.0087	4.1069	3.5650
16	14	31.3194	29.1412	26.1189	23.6848	21.0641	7.7895	6.5706	5.6287	4.6604	4.0747
17 35.7184 33.4067 30.1910 27.5871 24.7690 10.0852 8.6718 7.5642 6.4077 5.6973 18 37.1564 34.8062 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 39.9999 37.5663 34.1696 31.4104 28.4120 12.4426 10.8508 9.95908 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 42.7987 40.2894 36.7807 33.9245 30.8133 14.0415 12.3800 11.8886 10.1967 9.2604 24 45.5684 42.9798 39.3641 36.150 33.1962 15.6687 13.8484 12.4011 10.8663 9.8862 25 <t< th=""><th>15</th><td>32.8015</td><td>30.5780</td><td>27.4884</td><td>24.9958</td><td>22.3071</td><td>8.5468</td><td>7.2609</td><td>6.2621</td><td>5.2294</td><td>4.6009</td></t<>	15	32.8015	30.5780	27.4884	24.9958	22.3071	8.5468	7.2609	6.2621	5.2294	4.6009
18 37.1584 34.8052 31.5264 28.8693 25.9894 10.8649 9.3904 8.2307 7.0149 6.2648 19 38.5821 36.1908 32.8623 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 29.6161 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 32.0089 14.8480 13.0905 11.6885 10.1957 9.2604 24 45.5584 42.9789 39.341 36.4150 33.1962 15.6587 13.8484 12.4011 10.5593 9.8862 25 <	16	34.2671	31.9999	28.8453	26.2962	23.5418	9.3122	7.9616	6.9077	5.8122	5.1422
19	17	35.7184	33.4087	30.1910	27.5871	24.7690	10.0852	8.6718	7.5642	6.4077	5.6973
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 38,0766 35,1725 32,0089 14,8480 13,0955 11,6885 10,1957 9,2604 24 45,5584 42,9798 39,3641 36,4150 33,1962 15,6667 13,8484 12,4011 10,8563 9,8862 25 48,9280 44,3140 40,8465 37,6525 34,3816 18,4734 14,6114 13,1197 11,5240 10,5196 26 48,2898 45,6416 41,9231 38,6811 35,6622 17,2919 15,3792 13,3849 12,1982 11,1602 27	18	37.1564	34.8052	31.5264	28.8693	25.9894	10.8649	9.3904	8.2307	7.0149	6.2648
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 38,0766 35,1725 32,0069 16,8480 13,0905 11,6885 10,1967 9,2604 24 45,5584 42,9798 39,3641 36,4150 33,1962 15,6587 13,8484 12,4011 10,8653 9,8862 25 46,9280 44,3140 40,6465 37,6525 34,3316 16,4734 14,6114 13,1197 11,5602 10,5196 26 48,2898 45,6416 41,9231 38,8861 35,5632 17,2919 15,3792 13,8439 12,1982 11,1602 27 49,8450 48,9828 43,1945 40,1133 36,7412 18,1139 16,1514 14,5734 14,1427 14,2564 13,1211	19	38.5821	36.1908	32.8523	30.1435	27.2036	11.6509	10.1170	8.9065	7.6327	6.8439
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 10.8663 9.8862 25 46.9280 44.3140 40.6465 37.6525 34.3816 16.4734 14.6114 31.197 11.5240 10.5196 26 48.2898 45.6416 41.9231 38.8861 35.6532 17.2919 15.3792 13.8439 12.1982 11.602 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 44.4808 41.3372 37.9159 18.9392 16.9279 15.3079 13.5647 12.4613 30 <th>20</th> <td>39.9969</td> <td>37.5663</td> <td>34.1696</td> <td>31.4104</td> <td>28.4120</td> <td>12.4426</td> <td>10.8508</td> <td>9.5908</td> <td>8.2604</td> <td>7.4338</td>	20	39.9969	37.5663	34.1696	31.4104	28.4120	12.4426	10.8508	9.5908	8.2604	7.4338
23 44.1814 41.6383 38.0756 35.1725 32.0069 14.8480 13.0905 11.6885 10.1957 9.2604 24 45.5584 42.0798 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 16.1614 14.5734 12.8653 11.8077 28 50.9936 48.2762 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 16.70471 14.2564 13.1211 3	21	41.4009	38.9322	35.4789	32.6706	29.6151	13.2396	11.5913	10.2829	8.8972	8.0336
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 48.2888 45.6416 41.9231 38.8813 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 14.2664 13.1211 30 53.6719 50.8922 46.9792 43.7730 40.2560 20.5992 18.4927 16.7908 14.9535 13.7867 3	22	42.7957	40.2894	36.7807	33.9245	30.8133	14.0415	12.3380	10.9823	9.5425	8.6427
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 16.9277 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	23	44.1814	41.6383	38.0756	35.1725	32.0069	14.8480	13.0905	11.6885	10.1957	9.2604
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 49.8782 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 42.5847 22.2706 20.0719 18.2908 16.3622 15.1340 33 57.64	24	45.5584	42.9798	39.3641	36.4150	33.1962	15.6587	13.8484	12.4011	10.8563	9.8862
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 50.08922 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 17.77891 16.5013 <t< th=""><th>25</th><td>46.9280</td><td>44.3140</td><td>40.6465</td><td>37.6525</td><td>34.3816</td><td>16.4734</td><td>14.6114</td><td>13.1197</td><td>11.5240</td><td>10.5196</td></t<>	25	46.9280	44.3140	40.6465	37.6525	34.3816	16.4734	14.6114	13.1197	11.5240	10.5196
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 36.615811 58.6192 <th>26</th> <td>48.2898</td> <td>45.6416</td> <td>41.9231</td> <td>38.8851</td> <td>35.5632</td> <td>17.2919</td> <td>15.3792</td> <td>13.8439</td> <td>12.1982</td> <td>11.1602</td>	26	48.2898	45.6416	41.9231	38.8851	35.5632	17.2919	15.3792	13.8439	12.1982	11.1602
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	27	49.6450	46.9628	43.1945	40.1133	36.7412	18.1139	16.1514	14.5734	12.8785	11.8077
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Cuando los grados de libertad son grandes considere:

$$\lim_{k\to\infty}\chi_k^2(x)=N_{(k,\sqrt{2k})}(x)$$