

Área da Normal entre 0 and z

	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>0.03</b>	<b>0.04</b>	<b>0.05</b>	<b>0.06</b>	<b>0.07</b>	<b>0.08</b>	<b>0.09</b>
<b>0.0</b>	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
<b>0.1</b>	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
<b>0.2</b>	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
<b>0.3</b>	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
<b>0.4</b>	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
<b>0.5</b>	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
<b>0.6</b>	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
<b>0.7</b>	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
<b>0.8</b>	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
<b>0.9</b>	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
<b>1.0</b>	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
<b>1.1</b>	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
<b>1.2</b>	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
<b>1.3</b>	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
<b>1.4</b>	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
<b>1.5</b>	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
<b>1.6</b>	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
<b>1.7</b>	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
<b>1.8</b>	0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
<b>1.9</b>	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4761	0.4767
<b>2.0</b>	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
<b>2.1</b>	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
<b>2.2</b>	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
<b>2.3</b>	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
<b>2.4</b>	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
<b>2.5</b>	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
<b>2.6</b>	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
<b>2.7</b>	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
<b>2.8</b>	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
<b>2.9</b>	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
<b>3.0</b>	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990

[To index](#)

**t table with right tail probabilities**

<b>df\p</b>	<b>0.40</b>	<b>0.25</b>	<b>0.10</b>	<b>0.05</b>	<b>0.025</b>	<b>0.01</b>	<b>0.005</b>	<b>0.0005</b>
<b>1</b>	0.324920	1.000000	3.077684	6.313752	12.70620	31.82052	63.65674	636.6192
<b>2</b>	0.288675	0.816497	1.885618	2.919986	4.30265	6.96456	9.92484	31.5991
<b>3</b>	0.276671	0.764892	1.637744	2.353363	3.18245	4.54070	5.84091	12.9240
<b>4</b>	0.270722	0.740697	1.533206	2.131847	2.77645	3.74695	4.60409	8.6103
<b>5</b>	0.267181	0.726687	1.475884	2.015048	2.57058	3.36493	4.03214	6.8688
<b>6</b>	0.264835	0.717558	1.439756	1.943180	2.44691	3.14267	3.70743	5.9588
<b>7</b>	0.263167	0.711142	1.414924	1.894579	2.36462	2.99795	3.49948	5.4079
<b>8</b>	0.261921	0.706387	1.396815	1.859548	2.30600	2.89646	3.35539	5.0413
<b>9</b>	0.260955	0.702722	1.383029	1.833113	2.26216	2.82144	3.24984	4.7809
<b>10</b>	0.260185	0.699812	1.372184	1.812461	2.22814	2.76377	3.16927	4.5869
<b>11</b>	0.259556	0.697445	1.363430	1.795885	2.20099	2.71808	3.10581	4.4370
<b>12</b>	0.259033	0.695483	1.356217	1.782288	2.17881	2.68100	3.05454	4.3178
<b>13</b>	0.258591	0.693829	1.350171	1.770933	2.16037	2.65031	3.01228	4.2208
<b>14</b>	0.258213	0.692417	1.345030	1.761310	2.14479	2.62449	2.97684	4.1405
<b>15</b>	0.257885	0.691197	1.340606	1.753050	2.13145	2.60248	2.94671	4.0728
<b>16</b>	0.257599	0.690132	1.336757	1.745884	2.11991	2.58349	2.92078	4.0150
<b>17</b>	0.257347	0.689195	1.333379	1.739607	2.10982	2.56693	2.89823	3.9651
<b>18</b>	0.257123	0.688364	1.330391	1.734064	2.10092	2.55238	2.87844	3.9216
<b>19</b>	0.256923	0.687621	1.327728	1.729133	2.09302	2.53948	2.86093	3.8834
<b>20</b>	0.256743	0.686954	1.325341	1.724718	2.08596	2.52798	2.84534	3.8495
<b>21</b>	0.256580	0.686352	1.323188	1.720743	2.07961	2.51765	2.83136	3.8193
<b>22</b>	0.256432	0.685805	1.321237	1.717144	2.07387	2.50832	2.81876	3.7921
<b>23</b>	0.256297	0.685306	1.319460	1.713872	2.06866	2.49987	2.80734	3.7676
<b>24</b>	0.256173	0.684850	1.317836	1.710882	2.06390	2.49216	2.79694	3.7454
<b>25</b>	0.256060	0.684430	1.316345	1.708141	2.05954	2.48511	2.78744	3.7251
<b>26</b>	0.255955	0.684043	1.314972	1.705618	2.05553	2.47863	2.77871	3.7066
<b>27</b>	0.255858	0.683685	1.313703	1.703288	2.05183	2.47266	2.77068	3.6896
<b>28</b>	0.255768	0.683353	1.312527	1.701131	2.04841	2.46714	2.76326	3.6739
<b>29</b>	0.255684	0.683044	1.311434	1.699127	2.04523	2.46202	2.75639	3.6594
<b>30</b>	0.255605	0.682756	1.310415	1.697261	2.04227	2.45726	2.75000	3.6460
<b>inf</b>	0.253347	0.674490	1.281552	1.644854	1.95996	2.32635	2.57583	3.2905

### Níveis de Significância do Qui-quadrado

df/area	.995	.990	.975	.950	.900	.750	.500	.250	.100	.050	.025	.010	.005
<b>1</b>	0.00004	0.00016	0.00098	0.00393	0.01579	0.10153	0.45494	1.32330	2.70554	3.84146	5.02389	6.63490	7.87944
<b>2</b>	0.01003	0.02010	0.05064	0.10259	0.21072	0.57536	1.38629	2.77259	4.60517	5.99146	7.37776	9.21034	10.59663
<b>3</b>	0.07172	0.11483	0.21580	0.35185	0.58437	1.21253	2.36597	4.10834	6.25139	7.81473	9.34840	11.34487	12.83816
<b>4</b>	0.20699	0.29711	0.48442	0.71072	1.06362	1.92256	3.35669	5.38527	7.77944	9.48773	11.14329	13.27670	14.86026
<b>5</b>	0.41174	0.55430	0.83121	1.14548	1.61031	2.67460	4.35146	6.62568	9.23636	11.07050	12.83250	15.08627	16.74960
<b>6</b>	0.67573	0.87209	1.23734	1.63538	2.20413	3.45460	5.34812	7.84080	10.64464	12.59159	14.44938	16.81189	18.54758
<b>7</b>	0.98926	1.23904	1.68987	2.16735	2.83311	4.25485	6.34581	9.03715	12.01704	14.06714	16.01276	18.47531	20.27774
<b>8</b>	1.34441	1.64650	2.17973	2.73264	3.48954	5.07064	7.34412	10.21885	13.36157	15.50731	17.53455	20.09024	21.95495
<b>9</b>	1.73493	2.08790	2.70039	3.32511	4.16816	5.89883	8.34283	11.38875	14.68366	16.91898	19.02277	21.66599	23.58935
<b>10</b>	2.15586	2.55821	3.24697	3.94030	4.86518	6.73720	9.34182	12.54886	15.98718	18.30704	20.48318	23.20925	25.18818
<b>11</b>	2.60322	3.05348	3.81575	4.57481	5.57778	7.58414	10.34100	13.70069	17.27501	19.67514	21.92005	24.72497	26.75685
<b>12</b>	3.07382	3.57057	4.40379	5.22603	6.30380	8.43842	11.34032	14.84540	18.54935	21.02607	23.33666	26.21697	28.29952
<b>13</b>	3.56503	4.10692	5.00875	5.89186	7.04150	9.29907	12.33976	15.98391	19.81193	22.36203	24.73560	27.68825	29.81947
<b>14</b>	4.07467	4.66043	5.62873	6.57063	7.78953	10.16531	13.33927	17.11693	21.06414	23.68479	26.11895	29.14124	31.31935
<b>15</b>	4.60092	5.22935	6.26214	7.26094	8.54676	11.03654	14.33886	18.24509	22.30713	24.99579	27.48839	30.57791	32.80132
<b>16</b>	5.14221	5.81221	6.90766	7.96165	9.31224	11.91222	15.33850	19.36886	23.54183	26.29623	28.84535	31.99993	34.26719
<b>17</b>	5.69722	6.40776	7.56419	8.67176	10.08519	12.79193	16.33818	20.48868	24.76904	27.58711	30.19101	33.40866	35.71847
<b>18</b>	6.26480	7.01491	8.23075	9.39046	10.86494	13.67529	17.33790	21.60489	25.98942	28.86930	31.52638	34.80531	37.15645
<b>19</b>	6.84397	7.63273	8.90652	10.11701	11.65091	14.56200	18.33765	22.71781	27.20357	30.14353	32.85233	36.19087	38.58226
<b>20</b>	7.43384	8.26040	9.59078	10.85081	12.44261	15.45177	19.33743	23.82769	28.41198	31.41043	34.16961	37.56623	39.99685
<b>21</b>	8.03365	8.89720	10.28290	11.59131	13.23960	16.34438	20.33723	24.93478	29.61509	32.67057	35.47888	38.93217	41.40106
<b>22</b>	8.64272	9.54249	10.98232	12.33801	14.04149	17.23962	21.33704	26.03927	30.81328	33.92444	36.78071	40.28936	42.79565
<b>23</b>	9.26042	10.19572	11.68855	13.09051	14.84796	18.13730	22.33688	27.14134	32.00690	35.17246	38.07563	41.63840	44.18128
<b>24</b>	9.88623	10.85636	12.40115	13.84843	15.65868	19.03725	23.33673	28.24115	33.19624	36.41503	39.36408	42.97982	45.55851
<b>25</b>	10.51965	11.52398	13.11972	14.61141	16.47341	19.93934	24.33659	29.33885	34.38159	37.65248	40.64647	44.31410	46.92789
<b>26</b>	11.16024	12.19815	13.84390	15.37916	17.29188	20.84343	25.33646	30.43457	35.56317	38.88514	41.92317	45.64168	48.28988
<b>27</b>	11.80759	12.87850	14.57338	16.15140	18.11390	21.74940	26.33634	31.52841	36.74122	40.11327	43.19451	46.96294	49.64492
<b>28</b>	12.46134	13.56471	15.30786	16.92788	18.93924	22.65716	27.33623	32.62049	37.91592	41.33714	44.46079	48.27824	50.99338
<b>29</b>	13.12115	14.25645	16.04707	17.70837	19.76774	23.56659	28.33613	33.71091	39.08747	42.55697	45.72229	49.58788	52.33562
<b>30</b>	13.78672	14.95346	16.79077	18.49266	20.59923	24.47761	29.33603	34.79974	40.25602	43.77297	46.97924	50.89218	53.67196

### Níveis de Significância do F a 10%

df2/df1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	INF
1	39.863 46	49.500 00	53.593 24	55.832 96	57.240 08	58.204 42	58.905 95	59.438 98	59.857 59	60.194 98	60.705 21	61.220 34	61.740 29	62.002 05	62.264 97	62.529 05	62.794 28	63.060 64	63.328 12
2	8.5263 2	9.0000 0	9.1617 9	9.2434 2	9.2926 3	9.3255 3	9.3490 8	9.3667 7	9.3805 4	9.3915 7	9.4081 3	9.4247 1	9.4413 1	9.4496 2	9.4579 3	9.4662 4	9.4745 6	9.4828 9	9.4912 2
3	5.5383 2	5.4623 8	5.3907 7	5.3426 4	5.3091 6	5.2847 3	5.2661 9	5.2516 7	5.2400 0	5.2304 0	5.2156 2	5.2003 1	5.1844 8	5.1763 6	5.1681 1	5.1597 2	5.1511 9	5.1425 1	5.1337 0
4	4.5447 7	4.3245 6	4.1908 6	4.1072 5	4.0505 8	4.0097 5	3.9789 7	3.9549 4	3.9356 7	3.9198 8	3.8955 3	3.8703 6	3.8443 4	3.8309 9	3.8174 2	3.8036 1	3.7895 7	3.7752 7	3.7607 3
5	4.0604 2	3.7797 2	3.6194 8	3.5202 0	3.4529 8	3.4045 1	3.3679 0	3.3392 8	3.3162 8	3.2974 0	3.2682 4	3.2380 1	3.2066 5	3.1905 2	3.1740 8	3.1573 2	3.1402 3	3.1227 9	3.1050 0
6	3.7759 5	3.4633 0	3.2887 6	3.1807 6	3.1075 1	3.0545 5	3.0144 6	2.9830 4	2.9577 4	2.9369 3	2.9047 2	2.8712 2	2.8363 4	2.8183 4	2.7999 4	2.7811 7	2.7619 5	2.7422 9	2.7221 6
7	3.5894 3	3.2574 4	3.0740 7	2.9605 3	2.8833 4	2.8273 9	2.7849 3	2.7515 8	2.7246 8	2.7025 1	2.6681 1	2.6322 3	2.5947 3	2.5753 3	2.5554 6	2.5351 0	2.5142 2	2.4927 9	2.4707 9
8	3.4579 2	3.1131 2	2.9238 0	2.8064 3	2.7264 5	2.6683 3	2.6241 3	2.5893 5	2.5612 4	2.5380 4	2.5019 6	2.4642 2	2.4246 4	2.4041 0	2.3830 2	2.3613 6	2.3391 0	2.3161 8	2.2925 7
9	3.3603 0	3.0064 5	2.8128 6	2.6926 8	2.6106 1	2.5508 6	2.5053 1	2.4694 1	2.4403 4	2.4163 2	2.3788 8	2.3396 2	2.2983 2	2.2768 3	2.2547 2	2.2319 6	2.2084 9	2.1842 7	2.1592 3
10	3.2850 2	2.9244 7	2.7276 7	2.6053 4	2.5216 4	2.4605 8	2.4139 7	2.3771 5	2.3473 1	2.3226 0	2.2840 5	2.2435 1	2.2007 4	2.1784 3	2.1554 3	2.1316 9	2.1071 6	2.0817 6	2.0554 2
11	3.2252 0	2.8595 1	2.6602 3	2.5361 9	2.4511 8	2.3890 7	2.3415 7	2.3040 0	2.2735 0	2.2482 3	2.2087 3	2.1670 9	2.1230 5	2.1000 1	2.0762 1	2.0516 1	2.0261 2	1.9996 5	1.9721 1
12	3.1765 5	2.8068 0	2.6055 2	2.4801 0	2.3940 2	2.3310 2	2.2827 8	2.2445 7	2.2135 2	2.1877 6	2.1474 4	2.1048 5	2.0596 8	2.0359 9	2.0114 9	1.9861 0	1.9597 3	1.9322 8	1.9036 1
13	3.1362 1	2.7631 7	2.5602 7	2.4337 1	2.3467 2	2.2829 8	2.2341 0	2.1953 5	2.1638 2	2.1376 3	2.0965 9	2.0531 6	2.0069 8	1.9827 7	1.9575 7	1.9314 7	1.9042 9	1.8759 1	1.8462 0
14	3.1022 1	2.7264 7	2.5222 2	2.3946 9	2.3069 4	2.2425 6	2.1931 3	2.1539 0	2.1219 5	2.0954 0	2.0537 1	2.0095 3	1.9624 5	1.9376 6	1.9119 3	1.8851 6	1.8572 3	1.8280 0	1.7972 8
15	3.0731 9	2.6951 7	2.4897 9	2.3614 3	2.2730 2	2.2080 8	2.1581 8	2.1185 3	2.0862 1	2.0593 2	2.0170 7	1.9722 2	1.9243 1	1.8990 4	1.8727 7	1.8453 9	1.8167 6	1.7867 2	1.7550 5
16	3.0481 1	2.6681 7	2.4618 1	2.3327 4	2.2437 6	2.1783 3	2.1280 0	2.0879 8	2.0553 3	2.0281 5	1.9853 9	1.9399 2	1.8912 7	1.8655 6	1.8387 9	1.8108 4	1.7815 6	1.7507 5	1.7181 7
17	3.0262 3	2.6446 4	2.4374 3	2.3077 5	2.2182 5	2.1523 9	2.1016 9	2.0613 4	2.0283 9	2.0009 4	1.9577 2	1.9116 9	1.8623 6	1.8362 4	1.8090 1	1.7805 3	1.7506 3	1.7190 9	1.6856 4
18	3.0069 8	2.6239 5	2.4160 1	2.2857 7	2.1958 3	2.1295 8	2.0785 4	2.0378 9	2.0046 7	1.9769 8	1.9333 4	1.8868 1	1.8368 5	1.8103 5	1.7826 9	1.7537 1	1.7232 2	1.6909 9	1.6567 1
19	2.9899 0	2.6056 1	2.3970 2	2.2663 0	2.1759 6	2.1093 6	2.0580 2	2.0171 0	1.9836 4	1.9557 3	1.9117 0	1.8647 1	1.8141 6	1.7873 1	1.7592 4	1.7297 9	1.6987 6	1.6658 7	1.6307 7
20	2.9746 5	2.5892 5	2.3800 9	2.2489 3	2.1582 3	2.0913 2	2.0397 0	1.9985 3	1.9648 5	1.9367 4	1.8923 6	1.8449 4	1.7938 4	1.7666 7	1.7382 2	1.7083 3	1.6767 8	1.6432 6	1.6073 8
21	2.9609 6	2.5745 7	2.3648 9	2.2333 4	2.1423 1	2.0751 2	2.0232 5	1.9818 6	1.9479 7	1.9196 7	1.8749 7	1.8271 5	1.7755 5	1.7480 7	1.7192 7	1.6889 6	1.6569 1	1.6227 8	1.5861 5
22	2.9485 8	2.5613 1	2.3511 7	2.2192 7	2.1279 4	2.0605 0	2.0084 0	1.9668 0	1.9327 3	1.9042 5	1.8592 8	1.8110 6	1.7589 9	1.7312 2	1.7020 8	1.6713 8	1.6388 5	1.6041 5	1.5667 8
23	2.9373 6	2.5492 9	2.3387 3	2.2065 1	2.1149 1	2.0472 3	1.9949 2	1.9531 2	1.9188 8	1.8902 5	1.8449 7	1.7964 3	1.7439 2	1.7158 8	1.6864 3	1.6553 5	1.6223 7	1.5871 1	1.5490 3
24	2.9271 2	2.5383 3	2.3273 9	2.1948 8	2.1030 3	2.0351 3	1.9826 3	1.9406 6	1.9062 5	1.8774 8	1.8319 4	1.7830 8	1.7301 5	1.7018 5	1.6721 5	1.6406 7	1.6072 6	1.5714 6	1.5327 0
25	2.9177 4	2.5283 1	2.3170 2	2.1842 4	2.0921 6	2.0240 6	1.9713 8	1.9292 5	1.8946 9	1.8657 8	1.8200 0	1.7708 3	1.7175 2	1.6889 8	1.6589 5	1.6271 8	1.5933 5	1.5570 3	1.5176 0
26	2.9091 3	2.5191 0	2.3074 9	2.1744 7	2.0821 8	2.0138 9	1.9610 4	1.9187 6	1.8840 7	1.8550 3	1.8090 2	1.7595 7	1.7058 9	1.6771 2	1.6468 2	1.6147 2	1.5805 0	1.5436 8	1.5036 0
27	2.9011 9	2.5106 1	2.2987 1	2.1654 6	2.0729 8	2.0045 2	1.9515 1	1.9090 9	1.8742 7	1.8451 1	1.7988 9	1.7491 7	1.6951 4	1.6661 6	1.6356 0	1.6032 0	1.5685 9	1.5312 9	1.4905 7
28	2.8938 5	2.5027 6	2.2906 0	2.1571 4	2.0644 7	1.9958 5	1.9427 0	1.9001 4	1.8652 0	1.8359 3	1.7895 1	1.7395 4	1.6851 9	1.6560 0	1.6251 9	1.5925 0	1.5575 3	1.5197 6	1.4784 1
29	2.8870 3	2.4954 8	2.2830 7	2.1494 1	2.0565 8	1.9878 1	1.9345 2	1.8918 4	1.8567 9	1.8274 1	1.7808 1	1.7306 0	1.6759 3	1.6465 5	1.6155 1	1.5825 3	1.5472 1	1.5089 9	1.4670 4
30	2.8806 9	2.4887 2	2.2760 7	2.1422 3	2.0492 5	1.9803 3	1.9269 2	1.8841 2	1.8489 6	1.8194 9	1.7727 0	1.7222 7	1.6673 1	1.6377 4	1.6064 8	1.5732 3	1.5375 7	1.4989 1	1.4563 6
40	2.8353 5	2.4403 7	2.2260 9	2.0909 5	1.9968 2	1.9268 8	1.8725 2	1.8288 6	1.7929 0	1.7626 9	1.7145 6	1.6624 1	1.6051 5	1.5741 1	1.5410 8	1.5056 2	1.4671 6	1.4247 6	1.3769 1
60	2.7910 7	2.3932 5	2.1774 1	2.0409 9	1.9457 1	1.8747 2	1.8193 9	1.7748 3	1.7380 2	1.7070 1	1.6574 3	1.6033 7	1.5434 9	1.5107 2	1.4755 4	1.4373 4	1.3952 0	1.3475 7	1.2914 6
120	2.7478 1	2.3473 4	2.1299 9	1.9923 0	1.8958 7	1.8238 1	1.7674 8	1.7219 6	1.6842 5	1.6523 8	1.6012 0	1.5450 0	1.4820 7	1.4472 3	1.4093 8	1.3676 0	1.3203 4	1.2645 7	1.1925 6
inf	2.7055 4	2.3025 9	2.0838 0	1.9448 6	1.8472 7	1.7741 1	1.7167 2	1.6702 0	1.6315 2	1.5987 2	1.5457 8	1.4871 4	1.4206 0	1.3831 8	1.3418 7	1.2951 3	1.2399 5	1.1686 0	1.0000 0

**Níveis de Significância do F a 5%**

df2/d1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	INF
1	161.4476	199.5000	215.7073	224.5832	230.1619	233.9860	236.7684	238.8827	240.5433	241.8817	243.9060	245.9499	248.0131	249.0518	250.0951	251.1432	252.1957	253.2529	254.3144
2	18.5128	19.0000	19.1643	19.2468	19.2964	19.3295	19.3532	19.3710	19.3848	19.3959	19.4125	19.4291	19.4458	19.4541	19.4624	19.4707	19.4791	19.4874	19.4957
3	10.1280	9.5521	9.2766	9.1172	9.0135	8.9406	8.8867	8.8452	8.8123	8.7855	8.7446	8.7029	8.6602	8.6385	8.6166	8.5944	8.5720	8.5494	8.5264
4	7.7086	6.9443	6.5914	6.3882	6.2561	6.1631	6.0942	6.0410	5.9988	5.9641	5.9117	5.8578	5.8025	5.7744	5.7459	5.7170	5.6877	5.6581	5.6281
5	6.6079	5.7861	5.4095	5.1922	5.0503	4.9503	4.8759	4.8183	4.7725	4.7351	4.6777	4.6188	4.5581	4.5272	4.4957	4.4638	4.4314	4.3985	4.3650
6	5.9874	5.1433	4.7571	4.5337	4.3874	4.2839	4.2067	4.1468	4.0990	4.0600	3.9999	3.9388	3.8774	3.8412	3.8088	3.7743	3.7398	3.7047	3.6689
7	5.5914	4.7374	4.3468	4.1203	3.9715	3.8660	3.7870	3.7255	3.6767	3.6365	3.5747	3.5107	3.4445	3.4105	3.3758	3.3404	3.3043	3.2674	3.2298
8	5.3177	4.4590	4.0662	3.8379	3.6875	3.5806	3.5005	3.4381	3.3881	3.3472	3.2839	3.2184	3.1503	3.1152	3.0794	3.0428	3.0053	2.9669	2.9276
9	5.1174	4.2565	3.8625	3.6331	3.4817	3.3738	3.2927	3.2299	3.1789	3.1373	3.0729	3.0066	2.9385	2.9025	2.8653	2.8279	2.7892	2.7495	2.7087
10	4.9646	4.1028	3.7083	3.4780	3.3258	3.2172	3.1355	3.0717	3.0204	2.9782	2.9130	2.8455	2.7774	2.7372	2.6999	2.6609	2.6211	2.5801	2.5379
11	4.8443	3.9823	3.5874	3.3567	3.2033	3.0946	3.0123	2.9480	2.8962	2.8533	2.7876	2.7186	2.6464	2.6099	2.5705	2.5309	2.4901	2.4480	2.4045
12	4.7472	3.8853	3.4903	3.2592	3.1059	2.9966	2.9133	2.8484	2.7964	2.7533	2.6866	2.6166	2.5433	2.5055	2.4666	2.4255	2.3841	2.3414	2.2982
13	4.6672	3.8056	3.4105	3.1791	3.0254	2.9153	2.8321	2.7666	2.7144	2.6710	2.6033	2.5333	2.4599	2.4220	2.3820	2.3399	2.2966	2.2522	2.2064
14	4.6001	3.7389	3.3439	3.1122	2.9582	2.8477	2.7642	2.6988	2.6455	2.6022	2.5342	2.4633	2.3879	2.3487	2.3080	2.2666	2.2222	2.1778	2.1307
15	4.5431	3.6823	3.2874	3.0556	2.9013	2.7905	2.7066	2.6408	2.5876	2.5437	2.4753	2.4033	2.3274	2.2878	2.2466	2.2033	2.1600	2.1141	2.0658
16	4.4940	3.6333	3.2389	3.0069	2.8522	2.7413	2.6572	2.5911	2.5377	2.4935	2.4247	2.3522	2.2755	2.2355	2.1933	2.1500	2.1055	2.0589	2.0096
17	4.4513	3.5915	3.1968	2.9644	2.8090	2.6983	2.6143	2.5480	2.4943	2.4499	2.3807	2.3077	2.2300	2.1898	2.1477	2.1040	2.0588	2.0107	1.9604
18	4.4139	3.5546	3.1599	2.9277	2.7722	2.6613	2.5773	2.5102	2.4563	2.4117	2.3421	2.2686	2.1900	2.1497	2.1077	2.0622	2.0146	1.9648	1.9118
19	4.3807	3.5219	3.1274	2.8951	2.7396	2.6287	2.5447	2.4776	2.4237	2.3779	2.3080	2.2344	2.1555	2.1144	2.0712	2.0266	1.9795	1.9290	1.8750
20	4.3512	3.4928	3.0984	2.8666	2.7109	2.5990	2.5140	2.4471	2.3928	2.3479	2.2776	2.2033	2.1244	2.0822	2.0399	1.9933	1.9446	1.8933	1.8402
21	4.3248	3.4668	3.0725	2.8401	2.6848	2.5722	2.4876	2.4202	2.3650	2.3190	2.2484	2.1744	2.0955	2.0522	2.0080	1.9566	1.9066	1.8544	1.8000
22	4.3009	3.4434	3.0491	2.8166	2.6613	2.5487	2.4633	2.3959	2.3407	2.2946	2.2240	2.1500	2.0700	2.0266	1.9822	1.9300	1.8799	1.8277	1.7733
23	4.2793	3.4221	3.0278	2.7955	2.6402	2.5276	2.4422	2.3748	2.3196	2.2735	2.2029	2.1288	2.0487	2.0055	1.9600	1.9077	1.8577	1.8044	1.7480
24	4.2597	3.4028	3.0088	2.7766	2.6213	2.5087	2.4233	2.3559	2.3007	2.2546	2.1840	2.1099	2.0298	1.9866	1.9333	1.8800	1.8277	1.7733	1.7160
25	4.2417	3.3852	2.9912	2.7588	2.6035	2.4909	2.4055	2.3381	2.2829	2.2368	2.1662	2.0921	2.0120	1.9688	1.9155	1.8622	1.8099	1.7544	1.6960
26	4.2252	3.3690	2.9752	2.7426	2.5873	2.4747	2.3893	2.3220	2.2668	2.2207	2.1501	2.0760	1.9959	1.9527	1.9000	1.8477	1.7933	1.7360	1.6760
27	4.2100	3.3541	2.9604	2.7278	2.5725	2.4599	2.3745	2.3072	2.2520	2.2059	2.1353	2.0612	1.9811	1.9379	1.8852	1.8322	1.7777	1.7200	1.6590
28	4.1960	3.3404	2.9467	2.7141	2.5588	2.4462	2.3608	2.2935	2.2383	2.1922	2.1216	2.0475	1.9674	1.9242	1.8715	1.8182	1.7633	1.7060	1.6440
29	4.1830	3.3277	2.9340	2.7014	2.5461	2.4335	2.3481	2.2808	2.2256	2.1795	2.1089	2.0348	1.9547	1.9115	1.8588	1.8055	1.7500	1.6920	1.6300
30	4.1709	3.3158	2.9223	2.6896	2.5343	2.4217	2.3363	2.2690	2.2138	2.1677	2.0971	2.0230	1.9429	1.8997	1.8470	1.7925	1.7360	1.6760	1.6130
40	4.0847	3.2317	2.8387	2.6060	2.4495	2.3369	2.2515	2.1842	2.1290	2.0829	2.0123	1.9382	1.8581	1.8149	1.7622	1.7077	1.6500	1.5880	1.5230
60	4.0012	3.1504	2.7581	2.5252	2.3683	2.2557	2.1703	2.1030	2.0478	1.9917	1.9211	1.8470	1.7669	1.7237	1.6710	1.6155	1.5560	1.4920	1.4250
120	3.9201	3.0718	2.6802	2.4472	2.2899	2.1773	2.0919	2.0246	1.9694	1.9133	1.8427	1.7686	1.6885	1.6453	1.5926	1.5371	1.4780	1.4140	1.3470
inf	3.8415	2.9957	2.6049	2.3719	2.2141	2.0986	2.0096	1.9384	1.8799	1.8300	1.7594	1.6853	1.6052	1.5620	1.5075	1.4490	1.3860	1.3180	1.2460

### Níveis de Significância do F a 2,5%

df2/d1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	INF
1	647.7890	799.5000	864.1630	899.5833	921.8479	937.1111	948.2169	956.6562	963.2846	968.6274	976.7079	984.8668	993.1028	997.2492	1001.414	1005.598	1009.800	1014.020	1018.258
2	38.5063	39.0000	39.1655	39.2484	39.2982	39.3315	39.3552	39.3730	39.3869	39.3938	39.4180	39.4346	39.4479	39.4562	39.465	39.473	39.481	39.490	39.498
3	17.4434	16.0441	15.4392	15.1010	14.8848	14.7347	14.6244	14.5399	14.4731	14.4189	14.3366	14.2527	14.1674	14.1241	14.081	14.037	13.992	13.947	13.902
4	12.2179	10.6491	9.9792	9.6045	9.3645	9.1973	9.0741	8.9796	8.9047	8.8439	8.7512	8.6565	8.5599	8.5109	8.4619	8.411	8.360	8.309	8.257
5	10.0070	8.4336	7.7636	7.3879	7.1464	6.9777	6.8531	6.7572	6.6811	6.6192	6.5245	6.4277	6.3286	6.2780	6.2276	6.175	6.123	6.069	6.015
6	8.8131	7.2599	6.5988	6.2272	5.9876	5.8198	5.6955	5.5996	5.5234	5.4613	5.3662	5.2687	5.1684	5.1172	5.065	5.012	4.959	4.904	4.849
7	8.0727	6.5415	5.8898	5.5226	5.2852	5.1186	4.9949	4.8993	4.8232	4.7611	4.6658	4.5678	4.4667	4.4150	4.362	4.309	4.254	4.199	4.142
8	7.5709	6.0595	5.4160	5.0526	4.8173	4.6517	4.5286	4.4333	4.3572	4.2951	4.1997	4.1018	3.9995	3.9472	3.894	3.840	3.784	3.728	3.670
9	7.2093	5.7147	5.0781	4.7181	4.4844	4.3197	4.1970	4.1020	4.0260	3.9639	3.8682	3.7694	3.6669	3.6142	3.560	3.505	3.449	3.392	3.333
10	6.9367	5.4564	4.8256	4.4683	4.2361	4.0721	3.9498	3.8549	3.7790	3.7168	3.6209	3.5217	3.4185	3.3654	3.311	3.255	3.198	3.140	3.080
11	6.7241	5.2559	4.6300	4.2751	4.0440	3.8807	3.7586	3.6638	3.5879	3.5257	3.4296	3.3299	3.2261	3.1725	3.118	3.061	3.004	2.944	2.883
12	6.5538	5.0959	4.4742	4.1212	3.8911	3.7283	3.6065	3.5118	3.4358	3.3736	3.2773	3.1772	3.0728	3.0187	2.963	2.906	2.848	2.787	2.725
13	6.4143	4.9653	4.3472	3.9959	3.7667	3.6043	3.4827	3.3880	3.3120	3.2497	3.1532	3.0527	2.9477	2.8932	2.837	2.780	2.720	2.659	2.595
14	6.2979	4.8567	4.2417	3.8919	3.6634	3.5014	3.3799	3.2853	3.2093	3.1469	3.0502	2.9492	2.8433	2.7888	2.732	2.674	2.614	2.552	2.487
15	6.1995	4.7650	4.1528	3.8043	3.5764	3.4147	3.2934	3.1987	3.1227	3.0602	2.9633	2.8621	2.7559	2.7006	2.644	2.585	2.524	2.461	2.395
16	6.1151	4.6867	4.0768	3.7294	3.5021	3.3406	3.2194	3.1248	3.0488	2.9862	2.8890	2.7875	2.6808	2.6252	2.568	2.509	2.447	2.383	2.316
17	6.0420	4.6189	4.0112	3.6648	3.4379	3.2767	3.1556	3.0610	2.9849	2.9222	2.8249	2.7230	2.6158	2.5598	2.502	2.442	2.380	2.315	2.247
18	5.9781	4.5597	3.9539	3.6083	3.3820	3.2209	3.0999	3.0053	2.9291	2.8666	2.7689	2.6667	2.5599	2.5027	2.445	2.384	2.321	2.256	2.187
19	5.9216	4.5075	3.9034	3.5587	3.3327	3.1718	3.0509	2.9563	2.8801	2.8172	2.7196	2.6171	2.5089	2.4523	2.394	2.333	2.270	2.203	2.133
20	5.8715	4.4613	3.8587	3.5147	3.2891	3.1283	3.0074	2.9128	2.8365	2.7737	2.6758	2.5731	2.4645	2.4076	2.349	2.287	2.223	2.156	2.085
21	5.8266	4.4199	3.8188	3.4754	3.2501	3.0895	2.9686	2.8740	2.7977	2.7348	2.6368	2.5338	2.4247	2.3675	2.308	2.246	2.182	2.114	2.042
22	5.7863	4.3828	3.7829	3.4401	3.2151	3.0546	2.9338	2.8392	2.7628	2.6998	2.6017	2.4984	2.3890	2.3315	2.272	2.210	2.145	2.076	2.003
23	5.7498	4.3492	3.7505	3.4083	3.1835	3.0232	2.9023	2.8077	2.7313	2.6682	2.5699	2.4665	2.3567	2.2989	2.239	2.176	2.111	2.041	1.968
24	5.7166	4.3187	3.7211	3.3794	3.1548	2.9946	2.8738	2.7791	2.7027	2.6396	2.5411	2.4374	2.3273	2.2693	2.209	2.146	2.080	2.010	1.935
25	5.6864	4.2909	3.6943	3.3533	3.1288	2.9685	2.8478	2.7531	2.6766	2.6135	2.5149	2.4110	2.3005	2.2422	2.182	2.118	2.052	1.981	1.906
26	5.6586	4.2655	3.6697	3.3288	3.1043	2.9441	2.8234	2.7290	2.6528	2.5896	2.4908	2.3867	2.2759	2.2174	2.157	2.093	2.026	1.954	1.878
27	5.6331	4.2421	3.6472	3.3066	3.0821	2.9222	2.8015	2.7071	2.6309	2.5676	2.4688	2.3644	2.2533	2.1946	2.133	2.069	2.002	1.930	1.853
28	5.6096	4.2205	3.6264	3.2863	3.0621	2.9022	2.7815	2.6872	2.6110	2.5476	2.4488	2.3443	2.2324	2.1735	2.112	2.048	1.980	1.907	1.829
29	5.5878	4.2006	3.6072	3.2674	3.0433	2.8834	2.7627	2.6684	2.5921	2.5286	2.4298	2.3253	2.2131	2.1540	2.092	2.028	1.959	1.886	1.807
30	5.5675	4.1821	3.5894	3.2499	3.0265	2.8666	2.7460	2.6513	2.5746	2.5112	2.4120	2.3072	2.1952	2.1359	2.074	2.009	1.940	1.866	1.787
40	5.4239	4.0510	3.4633	3.1261	2.9037	2.7444	2.6238	2.5289	2.4519	2.3882	2.2882	2.1819	2.0677	2.0069	1.943	1.875	1.803	1.724	1.637
60	5.2856	3.9253	3.3425	3.0077	2.7863	2.6277	2.5068	2.4117	2.3344	2.2702	2.1699	2.0613	1.9445	1.8817	1.815	1.744	1.667	1.581	1.482
120	5.1523	3.8046	3.2269	2.8943	2.6740	2.5154	2.3948	2.2994	2.2217	2.1570	2.0548	1.9450	1.8249	1.7597	1.690	1.614	1.530	1.433	1.310
inf	5.0239	3.6889	3.1161	2.7858	2.5665	2.4082	2.2875	2.1918	2.1136	2.0483	1.9447	1.8326	1.7085	1.6402	1.566	1.484	1.388	1.268	1.000

[To index](#)

**Níveis de Significância do F a 1%**

df2/ df1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	INF
1	4052.181	4999.500	5403.352	5624.583	5763.650	5858.986	5928.356	5981.070	6022.473	6055.847	6106.321	6157.285	6208.730	6234.631	6260.649	6286.782	6313.030	6339.391	6365.864
2	98.503	99.000	99.166	99.249	99.299	99.333	99.356	99.374	99.388	99.399	99.416	99.433	99.449	99.458	99.466	99.474	99.482	99.491	99.499
3	34.116	30.817	29.457	28.710	28.237	27.911	27.672	27.489	27.345	27.229	27.052	26.872	26.690	26.598	26.505	26.411	26.316	26.221	26.125
4	21.198	18.000	16.694	15.977	15.522	15.207	14.976	14.799	14.659	14.546	14.374	14.198	14.020	13.929	13.838	13.745	13.652	13.558	13.463
5	16.258	13.274	12.060	11.392	10.967	10.672	10.456	10.289	10.158	10.051	9.888	9.722	9.553	9.466	9.379	9.291	9.202	9.112	9.020
6	13.745	10.925	9.780	9.148	8.746	8.466	8.260	8.102	7.976	7.874	7.718	7.559	7.396	7.313	7.229	7.143	7.057	6.969	6.880
7	12.246	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	6.620	6.469	6.314	6.155	6.074	5.992	5.908	5.824	5.737	5.650
8	11.259	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	5.814	5.667	5.515	5.359	5.279	5.198	5.116	5.032	4.946	4.859
9	10.561	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	5.257	5.111	4.962	4.808	4.729	4.649	4.567	4.483	4.398	4.311
10	10.044	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	4.849	4.706	4.558	4.405	4.327	4.247	4.165	4.082	3.996	3.909
11	9.646	7.206	6.217	5.668	5.316	5.069	4.886	4.744	4.632	4.539	4.397	4.251	4.099	4.021	3.941	3.860	3.776	3.690	3.602
12	9.330	6.927	5.953	5.412	5.064	4.821	4.640	4.499	4.388	4.296	4.155	4.010	3.858	3.780	3.701	3.619	3.535	3.449	3.361
13	9.074	6.701	5.739	5.205	4.862	4.620	4.441	4.302	4.191	4.100	3.960	3.815	3.665	3.587	3.507	3.425	3.341	3.255	3.165
14	8.862	6.515	5.564	5.035	4.695	4.456	4.278	4.140	4.030	3.939	3.800	3.656	3.505	3.427	3.348	3.266	3.181	3.094	3.004
15	8.683	6.359	5.417	4.893	4.556	4.318	4.142	4.004	3.895	3.805	3.666	3.522	3.372	3.294	3.214	3.132	3.047	2.959	2.868
16	8.531	6.226	5.292	4.773	4.437	4.202	4.026	3.890	3.780	3.691	3.553	3.409	3.259	3.181	3.101	3.018	2.933	2.845	2.753
17	8.400	6.112	5.185	4.669	4.336	4.102	3.927	3.791	3.682	3.593	3.455	3.312	3.162	3.084	3.003	2.920	2.835	2.746	2.653
18	8.285	6.013	5.092	4.579	4.248	4.015	3.841	3.705	3.597	3.508	3.371	3.227	3.077	2.999	2.919	2.835	2.749	2.660	2.566
19	8.185	5.926	5.010	4.500	4.171	3.939	3.765	3.631	3.523	3.434	3.297	3.153	3.003	2.925	2.844	2.761	2.674	2.584	2.489
20	8.096	5.849	4.938	4.431	4.103	3.871	3.699	3.564	3.457	3.368	3.231	3.088	2.938	2.859	2.778	2.695	2.608	2.517	2.421
21	8.017	5.780	4.874	4.369	4.042	3.812	3.640	3.506	3.398	3.310	3.173	3.030	2.880	2.801	2.720	2.636	2.548	2.457	2.360
22	7.945	5.719	4.817	4.313	3.988	3.758	3.587	3.453	3.346	3.258	3.121	2.978	2.827	2.749	2.667	2.583	2.495	2.403	2.305
23	7.881	5.664	4.765	4.264	3.939	3.710	3.539	3.406	3.299	3.211	3.074	2.931	2.781	2.702	2.620	2.535	2.447	2.354	2.256
24	7.823	5.614	4.718	4.218	3.895	3.667	3.496	3.363	3.256	3.168	3.032	2.889	2.738	2.659	2.577	2.492	2.403	2.310	2.211
25	7.770	5.568	4.675	4.177	3.855	3.627	3.457	3.324	3.217	3.129	2.993	2.850	2.699	2.620	2.538	2.453	2.364	2.270	2.169
26	7.721	5.526	4.637	4.140	3.818	3.591	3.421	3.288	3.182	3.094	2.958	2.815	2.664	2.585	2.503	2.417	2.327	2.233	2.131
27	7.677	5.488	4.601	4.106	3.785	3.558	3.388	3.256	3.149	3.062	2.926	2.783	2.632	2.552	2.470	2.384	2.294	2.198	2.097
28	7.636	5.453	4.568	4.074	3.754	3.528	3.358	3.226	3.120	3.032	2.896	2.753	2.602	2.522	2.440	2.354	2.263	2.167	2.064
29	7.598	5.420	4.538	4.045	3.725	3.499	3.330	3.198	3.092	3.005	2.868	2.726	2.574	2.495	2.412	2.325	2.234	2.138	2.034
30	7.562	5.390	4.510	4.018	3.699	3.473	3.304	3.173	3.067	2.979	2.843	2.700	2.549	2.469	2.386	2.299	2.208	2.111	2.006
40	7.314	5.179	4.313	3.828	3.514	3.291	3.124	2.993	2.888	2.801	2.665	2.522	2.369	2.288	2.203	2.114	2.019	1.917	1.805
60	7.077	4.977	4.126	3.649	3.339	3.119	2.953	2.823	2.718	2.632	2.496	2.352	2.198	2.115	2.028	1.936	1.836	1.726	1.601
120	6.851	4.787	3.949	3.480	3.174	2.956	2.792	2.663	2.559	2.472	2.336	2.192	2.035	1.950	1.860	1.763	1.656	1.533	1.381
inf	6.635	4.605	3.782	3.319	3.017	2.802	2.639	2.511	2.407	2.321	2.185	2.039	1.878	1.791	1.696	1.592	1.473	1.325	1.000