

TABLAS ESTADÍSTICAS

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Índice

1. Distribución Binomial	2
2. Distribución de Poisson	4
3. Distribución Normal	5
4. Distribución t de Student	6
5. Distribución χ^2	7
6. Distribución F	8
6.1. $F_{0.01}$	8
6.2. $F_{0.025}$	10
6.3. $F_{0.05}$	12
6.4. $F_{0.1}$	14

PROBABILIDADES ACUMULADAS DE LA BINOMIAL $B(n, p)$

		p								
		0.01	0.05	0.1	0.15	0.2	0.25	0.3	0.4	0.5
$n = 5$	0	0.95099	0.77378	0.59049	0.44371	0.32768	0.23730	0.16807	0.07776	0.03125
	1	0.99902	0.97741	0.91854	0.83521	0.73728	0.63281	0.52822	0.33696	0.18750
	2	0.99999	0.99884	0.99144	0.97339	0.94208	0.89648	0.83692	0.68256	0.50000
	3	1.00000	0.99997	0.99954	0.99777	0.99328	0.98438	0.96922	0.91296	0.81250
	4	1.00000	1.00000	0.99999	0.99992	0.99968	0.99902	0.99757	0.98976	0.96875
	5	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
$n = 6$	0	0.94148	0.73509	0.53144	0.37715	0.26214	0.17798	0.11765	0.04666	0.01562
	1	0.99854	0.96723	0.88574	0.77648	0.65536	0.53394	0.42017	0.23328	0.10938
	2	0.99998	0.99777	0.98415	0.95266	0.90112	0.83057	0.74431	0.54432	0.34375
	3	1.00000	0.99991	0.99873	0.99411	0.98304	0.96240	0.92953	0.82080	0.65625
	4	1.00000	1.00000	0.99995	0.99960	0.99840	0.99536	0.98906	0.95904	0.89062
	5	1.00000	1.00000	1.00000	0.99999	0.99994	0.99976	0.99927	0.99590	0.98438
	6	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
$n = 7$	0	0.93207	0.69834	0.47830	0.32058	0.20972	0.13348	0.08235	0.02799	0.00781
	1	0.99797	0.95562	0.85031	0.71658	0.57672	0.44495	0.32942	0.15863	0.06250
	2	0.99997	0.99624	0.97431	0.92623	0.85197	0.75641	0.64707	0.41990	0.22656
	3	1.00000	0.99981	0.99727	0.98790	0.96666	0.92944	0.87396	0.71021	0.50000
	4	1.00000	0.99999	0.99982	0.99878	0.99533	0.98712	0.97120	0.90374	0.77344
	5	1.00000	1.00000	0.99999	0.99993	0.99963	0.99866	0.99621	0.98116	0.93750
	6	1.00000	1.00000	1.00000	1.00000	0.99999	0.99994	0.99978	0.99836	0.99219
	7	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
$n = 8$	0	0.92274	0.66342	0.43047	0.27249	0.16777	0.10011	0.05765	0.01680	0.00391
	1	0.99731	0.94276	0.81310	0.65718	0.50332	0.36708	0.25530	0.10638	0.03516
	2	0.99995	0.99421	0.96191	0.89479	0.79692	0.67854	0.55177	0.31539	0.14453
	3	1.00000	0.99963	0.99498	0.97865	0.94372	0.88618	0.80590	0.59409	0.36328
	4	1.00000	0.99998	0.99957	0.99715	0.98959	0.97270	0.94203	0.82633	0.63672
	5	1.00000	1.00000	0.99998	0.99976	0.99877	0.99577	0.98871	0.95019	0.85547
	6	1.00000	1.00000	1.00000	0.99999	0.99992	0.99962	0.99871	0.99148	0.96484
	7	1.00000	1.00000	1.00000	1.00000	1.00000	0.99998	0.99993	0.99934	0.99609
	8	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
$n = 9$	0	0.91352	0.63025	0.38742	0.23162	0.13422	0.07508	0.04035	0.01008	0.00195
	1	0.99656	0.92879	0.77484	0.59948	0.43621	0.30034	0.19600	0.07054	0.01953
	2	0.99992	0.99164	0.94703	0.85915	0.73820	0.60068	0.46283	0.23179	0.08984
	3	1.00000	0.99936	0.99167	0.96607	0.91436	0.83427	0.72966	0.48261	0.25391
	4	1.00000	0.99997	0.99911	0.99437	0.98042	0.95107	0.90119	0.73343	0.50000
	5	1.00000	1.00000	0.99994	0.99937	0.99693	0.99001	0.97471	0.90065	0.74609
	6	1.00000	1.00000	1.00000	0.99995	0.99969	0.99866	0.99571	0.97497	0.91016
	7	1.00000	1.00000	1.00000	1.00000	0.99998	0.99989	0.99957	0.99620	0.98047
	8	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99998	0.99974	0.99805
	9	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
$n = 10$	0	0.90438	0.59874	0.34868	0.19687	0.10737	0.05631	0.02825	0.00605	0.00098
	1	0.99573	0.91386	0.73610	0.54430	0.37581	0.24403	0.14931	0.04636	0.01074
	2	0.99989	0.98850	0.92981	0.82020	0.67780	0.52559	0.38278	0.16729	0.05469
	3	1.00000	0.99897	0.98720	0.95003	0.87913	0.77588	0.64961	0.38228	0.17188
	4	1.00000	0.99994	0.99837	0.99013	0.96721	0.92187	0.84973	0.63310	0.37695
	5	1.00000	1.00000	0.99985	0.99862	0.99363	0.98027	0.95265	0.83376	0.62305
	6	1.00000	1.00000	0.99999	0.99987	0.99914	0.99649	0.98941	0.94524	0.82812
	7	1.00000	1.00000	1.00000	0.99999	0.99992	0.99958	0.99841	0.98771	0.94531
	8	1.00000	1.00000	1.00000	1.00000	1.00000	0.99997	0.99986	0.99832	0.98926
	9	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99990	0.99902
	10	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

$n = 15$	0.01	0.05	0.1	0.15	0.2	0.25	0.3	0.4	0.5
0	0.86006	0.46329	0.20589	0.08735	0.03518	0.01336	0.00475	0.00047	0.00003
1	0.99037	0.82905	0.54904	0.31859	0.16713	0.08018	0.03527	0.00517	0.00049
2	0.99958	0.96380	0.81594	0.60423	0.39802	0.23609	0.12683	0.02711	0.00369
3	0.99999	0.99453	0.94444	0.82266	0.64816	0.46129	0.29687	0.09050	0.01758
4	1.00000	0.99939	0.98728	0.93829	0.83577	0.68649	0.51549	0.21728	0.05923
5	1.00000	0.99995	0.99775	0.98319	0.93895	0.85163	0.72162	0.40322	0.15088
6	1.00000	1.00000	0.99969	0.99639	0.98194	0.94338	0.86886	0.60981	0.30362
7	1.00000	1.00000	0.99997	0.99939	0.99576	0.98270	0.94999	0.78690	0.50000
8	1.00000	1.00000	1.00000	0.99992	0.99922	0.99581	0.98476	0.90495	0.69638
9	1.00000	1.00000	1.00000	0.99999	0.99989	0.99921	0.99635	0.96617	0.84912
10	1.00000	1.00000	1.00000	1.00000	0.99999	0.99988	0.99933	0.99065	0.94077
11	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99991	0.99807	0.98242
12	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99972	0.99631
13	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99997	0.99951
14	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99997
15	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

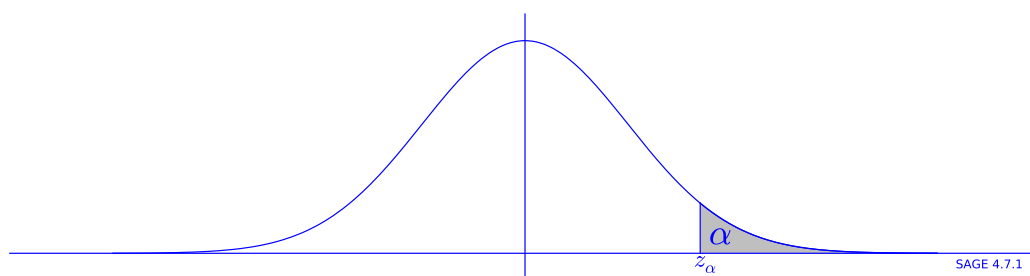
$n = 20$	0.01	0.05	0.1	0.15	0.2	0.25	0.3	0.4	0.5
0	0.81791	0.35849	0.12158	0.03876	0.01153	0.00317	0.00080	0.00004	0.00000
1	0.98314	0.73584	0.39175	0.17556	0.06918	0.02431	0.00764	0.00052	0.00002
2	0.99900	0.92452	0.67693	0.40490	0.20608	0.09126	0.03548	0.00361	0.00020
3	0.99996	0.98410	0.86705	0.64773	0.41145	0.22516	0.10709	0.01596	0.00129
4	1.00000	0.99743	0.95683	0.82985	0.62965	0.41484	0.23751	0.05095	0.00591
5	1.00000	0.99967	0.98875	0.93269	0.80421	0.61717	0.41637	0.12560	0.02069
6	1.00000	0.99997	0.99761	0.97806	0.91331	0.78578	0.60801	0.25001	0.05766
7	1.00000	1.00000	0.99958	0.99408	0.96786	0.89819	0.77227	0.41589	0.13159
8	1.00000	1.00000	0.99994	0.99867	0.99002	0.95907	0.88667	0.59560	0.25172
9	1.00000	1.00000	0.99999	0.99975	0.99741	0.98614	0.95204	0.75534	0.41190
10	1.00000	1.00000	1.00000	0.99996	0.99944	0.99606	0.98286	0.87248	0.58810
11	1.00000	1.00000	1.00000	1.00000	0.99990	0.99906	0.99486	0.94347	0.74828
12	1.00000	1.00000	1.00000	1.00000	0.99998	0.99982	0.99872	0.97897	0.86841
13	1.00000	1.00000	1.00000	1.00000	1.00000	0.99997	0.99974	0.99353	0.94234
14	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99996	0.99839	0.97931
15	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99968	0.99409
16	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99995	0.99871
17	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99980
18	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99998
19	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
20	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

$n = 25$	0.01	0.05	0.1	0.15	0.2	0.25	0.3	0.4	0.5
0	0.77782	0.27739	0.07179	0.01720	0.00378	0.00075	0.00013	0.00000	0.00000
1	0.97424	0.64238	0.27121	0.09307	0.02739	0.00702	0.00157	0.00005	0.00000
2	0.99805	0.87289	0.53709	0.25374	0.09823	0.03211	0.00896	0.00043	0.00001
3	0.99989	0.96591	0.76359	0.47112	0.23399	0.09621	0.03324	0.00237	0.00008
4	1.00000	0.99284	0.90201	0.68211	0.42067	0.21374	0.09047	0.00947	0.00046
5	1.00000	0.99879	0.96660	0.83848	0.61669	0.37828	0.19349	0.02936	0.00204
6	1.00000	0.99983	0.99052	0.93047	0.78004	0.56110	0.34065	0.07357	0.00732
7	1.00000	0.99998	0.99774	0.97453	0.89088	0.72651	0.51185	0.15355	0.02164
8	1.00000	1.00000	0.99954	0.99203	0.95323	0.85056	0.67693	0.27353	0.05388
9	1.00000	1.00000	0.99992	0.99786	0.98267	0.92867	0.81056	0.42462	0.11476
10	1.00000	1.00000	0.99999	0.99951	0.99445	0.97033	0.90220	0.58577	0.21218
11	1.00000	1.00000	1.00000	0.99990	0.99846	0.98927	0.95575	0.73228	0.34502
12	1.00000	1.00000	1.00000	0.99998	0.99963	0.99663	0.98253	0.84623	0.50000
13	1.00000	1.00000	1.00000	1.00000	0.99992	0.99908	0.99401	0.92220	0.65498
14	1.00000	1.00000	1.00000	1.00000	0.99999	0.99979	0.99822	0.96561	0.78782
15	1.00000	1.00000	1.00000	1.00000	1.00000	0.99996	0.99955	0.98683	0.88524
16	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99990	0.99567	0.94612
17	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99998	0.99879	0.97836
18	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99972	0.99268
19	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99995	0.99796
20	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999	0.99954
21	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99992
22	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99999
23	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
24	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
25	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

DISTRIBUCIÓN DE POISSON

λ	k															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0.02	0.980	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.04	0.961	0.038	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.06	0.942	0.057	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.08	0.923	0.074	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.10	0.905	0.090	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.15	0.861	0.129	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.20	0.819	0.164	0.016	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.25	0.779	0.195	0.024	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.30	0.741	0.222	0.033	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.35	0.705	0.247	0.043	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.40	0.670	0.268	0.054	0.007	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.45	0.638	0.287	0.065	0.010	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.607	0.303	0.076	0.013	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.55	0.577	0.317	0.087	0.016	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.60	0.549	0.329	0.099	0.020	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.65	0.522	0.339	0.110	0.024	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.70	0.497	0.348	0.122	0.028	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.472	0.354	0.133	0.033	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.80	0.449	0.359	0.144	0.038	0.008	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.85	0.427	0.363	0.154	0.044	0.009	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.90	0.407	0.366	0.165	0.049	0.011	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.95	0.387	0.367	0.175	0.055	0.013	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.00	0.368	0.368	0.184	0.061	0.015	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.10	0.333	0.366	0.201	0.074	0.020	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.20	0.301	0.361	0.217	0.087	0.026	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.30	0.273	0.354	0.230	0.100	0.032	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.40	0.247	0.345	0.242	0.113	0.039	0.011	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50	0.223	0.335	0.251	0.126	0.047	0.014	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.60	0.202	0.323	0.258	0.138	0.055	0.018	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.70	0.183	0.311	0.264	0.150	0.064	0.022	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.80	0.165	0.298	0.268	0.161	0.072	0.026	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.90	0.150	0.284	0.270	0.171	0.081	0.031	0.010	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	0.135	0.271	0.271	0.180	0.090	0.036	0.012	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.20	0.111	0.244	0.268	0.197	0.108	0.048	0.017	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.40	0.091	0.218	0.261	0.209	0.125	0.060	0.024	0.008	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000
2.60	0.074	0.193	0.251	0.218	0.141	0.074	0.032	0.012	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000
2.80	0.061	0.170	0.238	0.222	0.156	0.087	0.041	0.016	0.006	0.002	0.000	0.000	0.000	0.000	0.000	0.000
3.00	0.050	0.149	0.224	0.224	0.168	0.101	0.050	0.022	0.008	0.003	0.001	0.000	0.000	0.000	0.000	0.000
3.20	0.041	0.130	0.209	0.223	0.178	0.114	0.061	0.028	0.011	0.004	0.001	0.000	0.000	0.000	0.000	0.000
3.40	0.033	0.113	0.193	0.219	0.186	0.126	0.072	0.035	0.015	0.006	0.002	0.001	0.000	0.000	0.000	0.000
3.60	0.027	0.098	0.177	0.212	0.191	0.138	0.083	0.042	0.019	0.008	0.003	0.001	0.000	0.000	0.000	0.000
3.80	0.022	0.085	0.162	0.205	0.194	0.148	0.094	0.051	0.024	0.010	0.004	0.001	0.000	0.000	0.000	0.000
4.00	0.018	0.073	0.147	0.195	0.195	0.156	0.104	0.060	0.030	0.013	0.005	0.002	0.001	0.000	0.000	0.000
4.20	0.015	0.063	0.132	0.185	0.194	0.163	0.114	0.069	0.036	0.017	0.007	0.003	0.001	0.000	0.000	0.000
4.40	0.012	0.054	0.119	0.174	0.192	0.169	0.124	0.078	0.043	0.021	0.009	0.004	0.001	0.000	0.000	0.000
4.60	0.010	0.046	0.106	0.163	0.188	0.173	0.132	0.087	0.050	0.026	0.012	0.005	0.002	0.001	0.000	0.000
4.80	0.008	0.040	0.095	0.152	0.182	0.175	0.140	0.096	0.058	0.031	0.015	0.006	0.003	0.001	0.000	0.000
5.00	0.007	0.034	0.084	0.140	0.175	0.175	0.146	0.104	0.065	0.036	0.018	0.008	0.003	0.001	0.000	0.000
5.20	0.006	0.029	0.075	0.129	0.168	0.175	0.151	0.113	0.073	0.042	0.022	0.010	0.005	0.002	0.001	0.000
5.40	0.005	0.024	0.066	0.119	0.160	0.173	0.156	0.120	0.081	0.049	0.026	0.013	0.006	0.002	0.001	0.000
5.60	0.004	0.021	0.058	0.108	0.152	0.170	0.158	0.127	0.089	0.055	0.031	0.016	0.007	0.003	0.001	0.000
5.80	0.003	0.018	0.051	0.098	0.143	0.166	0.160	0.133	0.096	0.062	0.036	0.019	0.009	0.004	0.002	0.001
6.00	0.002	0.015	0.045	0.089	0.134	0.161	0.161	0.138	0.103	0.069	0.041	0.023	0.011	0.005	0.002	0.001
6.20	0.002	0.013	0.039	0.081	0.125	0.155	0.160	0.142	0.110	0.076	0.047	0.026	0.014	0.007	0.003	0.001
6.40	0.002	0.011	0.034	0.073	0.116	0.149	0.159	0.145	0.116	0.082	0.053	0.031	0.016	0.008	0.004	0.002
6.60	0.001	0.009	0.030	0.065	0.108	0.142	0.156	0.147	0.121	0.089	0.059	0.035	0.019	0.010	0.005	0.002
6.80	0.001	0.008	0.026	0.058	0.099	0.135	0.153	0.149	0.126	0.095	0.065	0.040	0.023	0.012	0.006	0.003
7.00	0.001	0.006	0.022	0.052	0.091	0.128	0.149	0.149	0.130	0.101	0.071	0.045	0.026	0.014	0.007	0.003
7.20	0.001	0.005	0.019	0.046	0.084	0.120	0.144	0.149	0.134	0.107	0.077	0.050	0.030	0.017	0.009	0.004
7.40	0.001	0.005	0.017	0.041	0.076	0.113	0.139	0.147	0.136	0.112	0.083	0.056	0.034	0.020	0.010	0.005
7.60	0.001	0.004	0.014	0.037	0.070	0.106	0.134	0.145	0.138	0.117	0.089	0.061	0.039	0.023	0.012	0.006
7.80	0.000	0.003	0.012	0.032	0.063	0.099	0.128	0.143	0.139	0.121	0.094	0.067	0.043	0.026	0.015	0.008
8.00	0.000	0.003	0.011	0.029	0.057	0.092	0.122	0.140	0.140	0.124	0.099	0.072	0.048	0.030	0.017	0.009

DISTRIBUCIÓN NORMAL



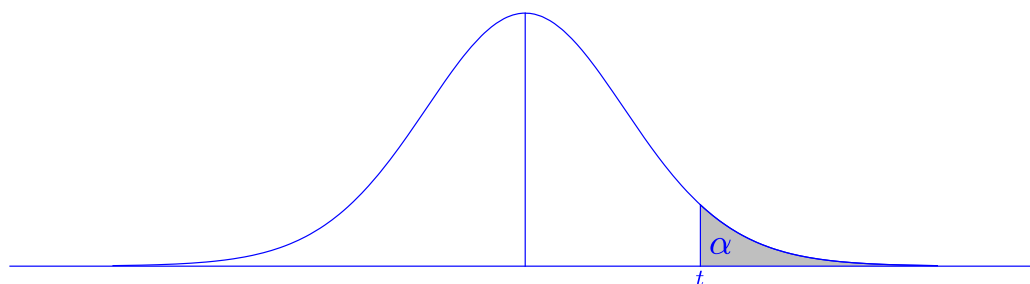
Ejemplos: si Z tiene distribución $N(0, 1)$,

1. $P(Z > 0.43) = 0.33360$;
2. $P(Z > 3.4) = 3.37 \cdot 10^{-4} = 0.000337$.

z_α	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.50000	0.49601	0.49202	0.48803	0.48405	0.48006	0.47608	0.47210	0.46812	0.46414
0.1	0.46017	0.45620	0.45224	0.44828	0.44433	0.44038	0.43644	0.43251	0.42858	0.42465
0.2	0.42074	0.41683	0.41294	0.40905	0.40517	0.40129	0.39743	0.39358	0.38974	0.38591
0.3	0.38209	0.37828	0.37448	0.37070	0.36693	0.36317	0.35942	0.35569	0.35197	0.34827
0.4	0.34458	0.34090	0.33724	0.33360	0.32997	0.32636	0.32276	0.31918	0.31561	0.31207
0.5	0.30854	0.30503	0.30153	0.29806	0.29460	0.29116	0.28774	0.28434	0.28096	0.27760
0.6	0.27425	0.27093	0.26763	0.26435	0.26109	0.25785	0.25463	0.25143	0.24825	0.24510
0.7	0.24196	0.23885	0.23576	0.23270	0.22965	0.22663	0.22363	0.22065	0.21770	0.21476
0.8	0.21186	0.20897	0.20611	0.20327	0.20045	0.19766	0.19489	0.19215	0.18943	0.18673
0.9	0.18406	0.18141	0.17879	0.17619	0.17361	0.17106	0.16853	0.16602	0.16354	0.16109
1.0	0.15866	0.15625	0.15386	0.15151	0.14917	0.14686	0.14457	0.14231	0.14007	0.13786
1.1	0.13567	0.13350	0.13136	0.12924	0.12714	0.12507	0.12302	0.12100	0.11900	0.11702
1.2	0.11507	0.11314	0.11123	0.10935	0.10749	0.10565	0.10383	0.10204	0.10027	0.09853
1.3	0.09680	0.09510	0.09342	0.09176	0.09012	0.08851	0.08691	0.08534	0.08379	0.08226
1.4	0.08076	0.07927	0.07780	0.07636	0.07493	0.07353	0.07215	0.07078	0.06944	0.06811
1.5	0.06681	0.06552	0.06426	0.06301	0.06178	0.06057	0.05938	0.05821	0.05705	0.05592
1.6	0.05480	0.05370	0.05262	0.05155	0.05050	0.04947	0.04846	0.04746	0.04648	0.04551
1.7	0.04457	0.04363	0.04272	0.04182	0.04093	0.04006	0.03920	0.03836	0.03754	0.03673
1.8	0.03593	0.03515	0.03438	0.03362	0.03288	0.03216	0.03144	0.03074	0.03005	0.02938
1.9	0.02872	0.02807	0.02743	0.02680	0.02619	0.02559	0.02500	0.02442	0.02385	0.02330
2.0	0.02275	0.02222	0.02169	0.02118	0.02068	0.02018	0.01970	0.01923	0.01876	0.01831
2.1	0.01786	0.01743	0.01700	0.01659	0.01618	0.01578	0.01539	0.01500	0.01463	0.01426
2.2	0.01390	0.01355	0.01321	0.01287	0.01255	0.01222	0.01191	0.01160	0.01130	0.01101
2.3	0.01072	0.01044	0.01017	0.00990	0.00964	0.00939	0.00914	0.00889	0.00866	0.00842
2.4	0.00820	0.00798	0.00776	0.00755	0.00734	0.00714	0.00695	0.00676	0.00657	0.00639
2.5	0.00621	0.00604	0.00587	0.00570	0.00554	0.00539	0.00523	0.00508	0.00494	0.00480
2.6	0.00466	0.00453	0.00440	0.00427	0.00415	0.00402	0.00391	0.00379	0.00368	0.00357
2.7	0.00347	0.00336	0.00326	0.00317	0.00307	0.00298	0.00289	0.00280	0.00272	0.00264
2.8	0.00256	0.00248	0.00240	0.00233	0.00226	0.00219	0.00212	0.00205	0.00199	0.00193
2.9	0.00187	0.00181	0.00175	0.00169	0.00164	0.00159	0.00154	0.00149	0.00144	0.00139

z_α	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3	1.35E-03	9.68E-04	6.87E-04	4.83E-04	3.37E-04	2.33E-04	1.59E-04	1.08E-04	7.23E-05	4.81E-05
4	3.17E-05	2.07E-05	1.33E-05	8.54E-06	5.41E-06	3.40E-06	2.11E-06	1.30E-06	7.93E-07	4.79E-07

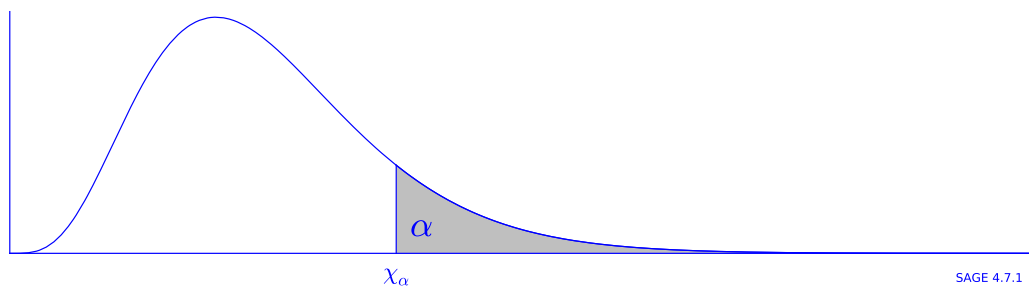
DISTRIBUCIÓN t DE STUDENT



Ejemplo: para $n = 25$ y $\alpha = 0.05$, $t_{25;0.05} = 1.708$, significa que $P(T > 1.708) = 0.05$.

n	α													
	0.25	0.2	0.15	0.1	0.05	0.025	0.01	0.008	0.005	0.004	0.0025	0.0017	0.0010	0.0005
1	1.000	1.376	1.963	3.078	6.314	12.71	31.82	39.780	63.66	79.573	127.321	187.239	318.3	636.6
2	0.816	1.061	1.386	1.886	2.920	4.303	6.965	7.811	9.925	11.113	14.089	17.106	22.33	31.60
3	0.765	0.978	1.250	1.638	2.353	3.182	4.541	4.930	5.841	6.322	7.453	8.517	10.21	12.92
4	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.010	4.604	4.908	5.598	6.221	7.173	8.610
5	0.727	0.920	1.156	1.476	2.015	2.571	3.365	3.573	4.032	4.262	4.773	5.224	5.893	6.869
6	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.320	3.707	3.898	4.317	4.679	5.208	5.959
7	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.157	3.499	3.667	4.029	4.339	4.785	5.408
8	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.043	3.355	3.507	3.833	4.108	4.501	5.041
9	0.703	0.883	1.100	1.383	1.833	2.262	2.821	2.958	3.250	3.390	3.690	3.941	4.297	4.781
10	0.700	0.879	1.093	1.372	1.812	2.228	2.764	2.894	3.169	3.301	3.581	3.815	4.144	4.587
11	0.697	0.876	1.088	1.363	1.796	2.201	2.718	2.843	3.106	3.231	3.497	3.717	4.025	4.437
12	0.695	0.873	1.083	1.356	1.782	2.179	2.681	2.801	3.055	3.175	3.428	3.638	3.930	4.318
13	0.694	0.870	1.079	1.350	1.771	2.160	2.650	2.767	3.012	3.128	3.372	3.573	3.852	4.221
14	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.739	2.977	3.089	3.326	3.520	3.787	4.140
15	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.714	2.947	3.056	3.286	3.474	3.733	4.073
16	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.693	2.921	3.028	3.252	3.435	3.686	4.015
17	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.675	2.898	3.003	3.222	3.401	3.646	3.965
18	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.658	2.878	2.982	3.197	3.371	3.610	3.922
19	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.644	2.861	2.962	3.174	3.345	3.579	3.883
20	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.631	2.845	2.945	3.153	3.322	3.552	3.850
25	0.684	0.856	1.058	1.316	1.708	2.060	2.485	2.584	2.787	2.882	3.078	3.236	3.450	3.725
30	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.553	2.750	2.841	3.030	3.181	3.385	3.646
35	0.682	0.852	1.052	1.306	1.690	2.030	2.438	2.532	2.724	2.813	2.996	3.143	3.340	3.591
40	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.516	2.704	2.792	2.971	3.115	3.307	3.551
45	0.680	0.850	1.049	1.301	1.679	2.014	2.412	2.503	2.690	2.776	2.952	3.093	3.281	3.520
50	0.679	0.849	1.047	1.299	1.676	2.009	2.403	2.494	2.678	2.763	2.937	3.076	3.261	3.496
75	0.678	0.846	1.044	1.293	1.665	1.992	2.377	2.465	2.643	2.725	2.892	3.025	3.202	3.425
100	0.677	0.845	1.042	1.290	1.660	1.984	2.364	2.451	2.626	2.706	2.871	3.001	3.174	3.390
125	0.676	0.845	1.041	1.288	1.657	1.979	2.357	2.442	2.616	2.695	2.858	2.986	3.157	3.370
150	0.676	0.844	1.040	1.287	1.655	1.976	2.351	2.437	2.609	2.688	2.849	2.977	3.145	3.357
∞	0.674	0.842	1.036	1.282	1.645	1.960	2.326	2.409	2.576	2.652	2.807	2.929	3.090	3.291

DISTRIBUCIÓN χ^2

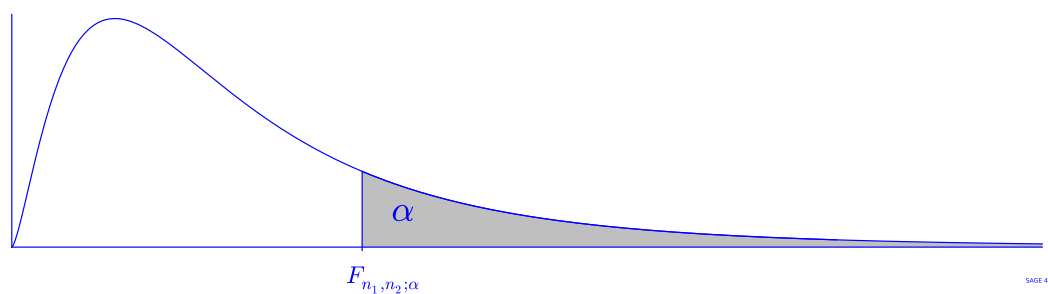


Ejemplo: para $n = 10$ y $\alpha = 0.05$, $\chi^2_{10;0.05} = 18.307$, significa que $P(\chi^2_{10} > 18.307) = 0.05$.

n	α														
	0.9975	0.995	0.99	0.975	0.95	0.9	0.75	0.5	0.25	0.1	0.05	0.025	0.01	0.005	0.0025
1	9.82E-06	3.93E-05	1.57E-04	9.82E-04	3.93E-03	1.58E-02	0.1015	0.4549	1.323	2.706	3.841	5.024	6.635	7.879	9.141
2	5.01E-03	1.00E-02	2.01E-02	5.06E-02	0.1026	0.2107	0.5754	1.386	2.773	4.605	5.991	7.378	9.210	10.60	11.98
3	4.49E-02	7.17E-02	0.1148	0.2158	0.3518	0.5844	1.213	2.366	4.108	6.251	7.815	9.348	11.34	12.84	14.32
4	0.1449	0.2070	0.2971	0.4844	0.7107	1.064	1.923	3.357	5.385	7.779	9.488	11.14	13.28	14.86	16.42
5	0.3075	0.4117	0.5543	0.8312	1.145	1.610	2.675	4.351	6.626	9.236	11.07	12.83	15.09	16.75	18.39
6	0.5266	0.6757	0.8721	1.237	1.635	2.204	3.455	5.348	7.841	10.64	12.59	14.45	16.81	18.55	20.25
7	0.7945	0.9893	1.239	1.690	2.167	2.833	4.255	6.346	9.037	12.02	14.07	16.01	18.48	20.28	22.04
8	1.104	1.344	1.646	2.180	2.733	3.490	5.071	7.344	10.22	13.36	15.51	17.53	20.09	21.95	23.77
9	1.450	1.735	2.088	2.700	3.325	4.168	5.899	8.343	11.39	14.68	16.92	19.02	21.67	23.59	25.46
10	1.827	2.156	2.558	3.247	3.940	4.865	6.737	9.342	12.55	15.99	18.31	20.48	23.21	25.19	27.11
11	2.232	2.603	3.053	3.816	4.575	5.578	7.584	10.341	13.70	17.28	19.68	21.92	24.72	26.76	28.73
12	2.661	3.074	3.571	4.404	5.226	6.304	8.438	11.340	14.85	18.55	21.03	23.34	26.22	28.30	30.32
13	3.112	3.565	4.107	5.009	5.892	7.042	9.299	12.340	15.98	19.81	22.36	24.74	27.69	29.82	31.88
14	3.582	4.075	4.660	5.629	6.571	7.790	10.17	13.34	17.12	21.06	23.68	26.12	29.14	31.32	33.43
15	4.070	4.601	5.229	6.262	7.261	8.547	11.04	14.34	18.25	22.31	25.00	27.49	30.58	32.80	34.95
16	4.573	5.142	5.812	6.908	7.962	9.312	11.91	15.34	19.37	23.54	26.30	28.85	32.00	34.27	36.46
17	5.092	5.697	6.408	7.564	8.672	10.09	12.79	16.34	20.49	24.77	27.59	30.19	33.41	35.72	37.95
18	5.623	6.265	7.015	8.231	9.390	10.86	13.68	17.34	21.60	25.99	28.87	31.53	34.81	37.16	39.42
19	6.167	6.844	7.633	8.907	10.12	11.65	14.56	18.34	22.72	27.20	30.14	32.85	36.19	38.58	40.88
20	6.723	7.434	8.260	9.591	10.85	12.44	15.45	19.34	23.83	28.41	31.41	34.17	37.57	40.00	42.34
21	7.289	8.034	8.897	10.28	11.59	13.24	16.34	20.34	24.93	29.62	32.67	35.48	38.93	41.40	43.78
22	7.865	8.643	9.542	10.98	12.34	14.04	17.24	21.34	26.04	30.81	33.92	36.78	40.29	42.80	45.20
23	8.450	9.260	10.20	11.69	13.09	14.85	18.14	22.34	27.14	32.01	35.17	38.08	41.64	44.18	46.62
24	9.044	9.886	10.86	12.40	13.85	15.66	19.04	23.34	28.24	33.20	36.42	39.36	42.98	45.56	48.03
25	9.646	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	49.44
26	10.26	11.16	12.20	13.84	15.38	17.29	20.84	25.34	30.43	35.56	38.89	41.92	45.64	48.29	50.83
27	10.87	11.81	12.88	14.57	16.15	18.11	21.75	26.34	31.53	36.74	40.11	43.19	46.96	49.64	52.22
28	11.50	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	53.59
29	12.13	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	54.97
30	12.76	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	56.33
35	16.03	17.19	18.51	20.57	22.47	24.80	29.05	34.34	40.22	46.06	49.80	53.20	57.34	60.27	63.08
40	19.42	20.71	22.16	24.43	26.51	29.05	33.66	39.34	45.62	51.81	55.76	59.34	63.69	66.77	69.70
45	22.90	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	76.22
50	26.46	27.99	29.71	32.36	34.76	37.69	42.94	49.33	56.33	63.17	67.50	71.42	76.15	79.49	82.66
55	30.10	31.73	33.57	36.40	38.96	42.06	47.61	54.33	61.66	68.80	73.31	77.38	82.29	85.75	89.03
60	33.79	35.53	37.48	40.48	43.19	46.46	52.29	59.33	66.98	74.40	79.08	83.30	88.38	91.95	95.34
65	37.54	39.38	41.44	44.60	47.45	50.88	56.99	64.33	72.28	79.97	84.82	89.18	94.42	98.11	101.6
70	41.33	43.28	45.44	48.76	51.74	55.33	61.70	69.33	77.58	85.53	90.53	95.02	100.4	104.2	107.8
75	45.17	47.21	49.48	52.94	56.05	59.79	66.42	74.33	82.86	91.06	96.22	100.8	106.4	110.3	114.0
80	49.04	51.17	53.54	57.15	60.39	64.28	71.14	79.33	88.13	96.58	101.9	106.6	112.3	116.3	120.1
90	56.89	59.20	61.75	65.65	69.13	73.29	80.62	89.33	98.65	107.6	113.1	118.1	124.1	128.3	132.3
100	64.86	67.33	70.06	74.22	77.93	82.36	90.13	99.33	109.1	118.5	124.3	129.6	135.8	140.2	144.3
110	72.92	75.55	78.46	82.87	86.79	91.47	99.67	109.3	119.6	129.4	135.5	140.9	147.4	151.9	156.2
120	81.07	83.85	86.92	91.57	95.70	100.6	109.2	119.3	130.1	140.2	146.6	152.2	159.0	163.6	168.1
150	105.9	109.1	112.7	118.0	122.7	128.3	138.0	149.3	161.3	172.6	179.6	185.8	193.2	198.4	203.2
200	148.4	152.2	156.4	162.7	168.3	174.8	186.2	199.3	213.1	226.0	234.0	241.1	249.4	255.3	260.7

DISTRIBUCIÓN F

$\alpha = 0.01$



Ejemplo: para $n_1 = 5$, $n_2 = 10$ y $\alpha = 0.01$, $F_{5,10;0.01} = 5.636$, significa que $P(F_{5,10} > 5.636) = 0.01$.

n_2	n_1															
	1	2	3	4	5	6	7	8	9	10	12	15	16	18	20	24
1	4052	5000	5403	5625	5764	5859	5928	5981	6022	6056	6106	6157	6170	6192	6209	6235
2	98.50	99.00	99.17	99.25	99.30	99.33	99.36	99.37	99.39	99.40	99.42	99.43	99.44	99.44	99.45	99.46
3	34.12	30.82	29.46	28.71	28.24	27.91	27.67	27.49	27.35	27.23	27.05	26.87	26.83	26.75	26.69	26.60
4	21.20	18.00	16.69	15.98	15.52	15.21	14.98	14.80	14.66	14.55	14.37	14.20	14.15	14.08	14.02	13.93
5	16.26	13.27	12.06	11.39	10.97	10.67	10.46	10.29	10.16	10.051	9.888	9.722	9.680	9.610	9.553	9.466
6	13.75	10.92	9.780	9.148	8.746	8.466	8.260	8.102	7.976	7.874	7.718	7.559	7.519	7.451	7.396	7.313
7	12.25	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	6.620	6.469	6.314	6.275	6.209	6.155	6.074
8	11.26	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	5.814	5.667	5.515	5.477	5.412	5.359	5.279
9	10.56	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	5.257	5.111	4.962	4.924	4.860	4.808	4.729
10	10.04	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	4.849	4.706	4.558	4.520	4.457	4.405	4.327
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	4.213	4.150	4.099	4.021
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	3.972	3.909	3.858	3.780
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	3.778	3.716	3.665	3.587
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	3.619	3.556	3.505	3.427
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	3.485	3.423	3.372	3.294
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	3.372	3.310	3.259	3.181
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	3.275	3.212	3.162	3.084
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	3.190	3.128	3.077	2.999
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	3.116	3.054	3.003	2.925
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	3.051	2.989	2.938	2.859
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	2.993	2.931	2.880	2.801
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	2.941	2.879	2.827	2.749
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	2.894	2.832	2.781	2.702
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	2.852	2.789	2.738	2.659
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	2.813	2.751	2.699	2.620
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	2.778	2.715	2.664	2.585
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	2.746	2.683	2.632	2.552
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	2.716	2.653	2.602	2.522
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	2.689	2.626	2.574	2.495
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	2.663	2.600	2.549	2.469
35	7.419	5.268	4.396	3.908	3.592	3.368	3.200	3.069	2.963	2.876	2.740	2.597	2.560	2.497	2.445	2.364
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	2.484	2.421	2.369	2.288
45	7.234	5.110	4.249	3.767	3.454	3.232	3.066	2.935	2.830	2.743	2.608	2.464	2.427	2.363	2.311	2.230
50	7.171	5.057	4.199	3.720	3.408	3.186	3.020	2.890	2.785	2.698	2.562	2.419	2.382	2.318	2.265	2.183
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	2.315	2.251	2.198	2.115
70	7.011	4.922	4.074	3.600	3.291	3.071	2.906	2.777	2.672	2.585	2.450	2.306	2.268	2.204	2.150	2.067
80	6.963	4.881	4.036	3.563	3.255	3.036	2.871	2.742	2.637	2.551	2.415	2.271	2.233	2.169	2.115	2.032
100	6.895	4.824	3.984	3.513	3.206	2.988	2.823	2.694	2.590	2.503	2.368	2.223	2.185	2.120	2.067	1.983
125	6.842	4.779	3.942	3.473	3.167	2.950	2.786	2.657	2.552	2.466	2.330	2.185	2.147	2.082	2.028	1.944
150	6.807	4.749	3.915	3.447	3.142	2.924	2.761	2.632	2.528	2.441	2.305	2.160	2.122	2.057	2.003	1.918
175	6.782	4.729	3.895	3.428	3.123	2.907	2.743	2.614	2.510	2.424	2.288	2.143	2.105	2.039	1.985	1.899
200	6.763	4.713	3.881	3.414	3.110	2.893	2.730	2.601	2.497	2.411	2.275	2.129	2.091	2.026	1.971	1.886
300	6.720	4.677	3.848	3.382	3.079	2.862	2.699	2.571	2.467	2.380	2.244	2.099	2.061	1.995	1.940	1.854
400	6.699	4.659	3.831	3.366	3.063	2.847	2.684	2.556	2.452	2.365	2.229	2.084	2.045	1.979	1.925	1.838
500	6.686	4.648	3.821	3.357	3.054	2.838	2.675	2.547	2.443	2.356	2.220	2.075	2.036	1.970	1.915	1.829
750	6.669	4.634	3.808	3.344	3.042	2.826	2.663	2.535	2.431	2.345	2.208	2.063	2.024	1.958	1.903	1.816
1000	6.660	4.626	3.801	3.338	3.036	2.820	2.657	2.529	2.425	2.339	2.203	2.056	2.018	1.952	1.897	1.810

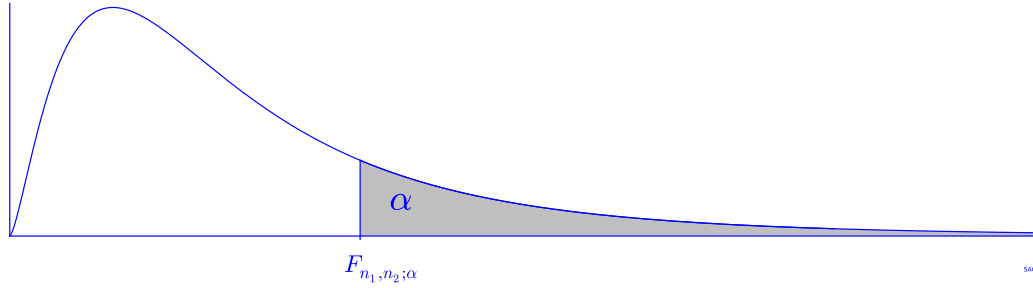
DISTRIBUCIÓN F

$$\alpha = 0.01$$

n_2	n_1															
	25	30	35	40	45	50	60	70	80	90	100	150	200	300	500	1000
1	6240	6261	6276	6287	6296	6303	6313	6321	6326	6331	6334	6345	6350	6355	6360	6363
2	99.46	99.47	99.47	99.47	99.48	99.48	99.48	99.48	99.49	99.49	99.49	99.49	99.49	99.50	99.50	99.50
3	26.58	26.50	26.45	26.41	26.38	26.35	26.32	26.29	26.27	26.25	26.24	26.20	26.18	26.16	26.15	26.14
4	13.91	13.84	13.79	13.75	13.71	13.69	13.65	13.63	13.61	13.59	13.58	13.54	13.52	13.50	13.49	13.47
5	9.449	9.379	9.329	9.291	9.262	9.238	9.202	9.176	9.157	9.142	9.130	9.094	9.075	9.057	9.042	9.031
6	7.296	7.229	7.180	7.143	7.115	7.091	7.057	7.032	7.013	6.998	6.987	6.951	6.934	6.916	6.902	6.891
7	6.058	5.992	5.944	5.908	5.880	5.858	5.824	5.799	5.781	5.766	5.755	5.720	5.702	5.685	5.671	5.660
8	5.263	5.198	5.151	5.116	5.088	5.065	5.032	5.007	4.989	4.975	4.963	4.929	4.911	4.894	4.880	4.869
9	4.713	4.649	4.602	4.567	4.539	4.517	4.483	4.459	4.441	4.426	4.415	4.380	4.363	4.346	4.332	4.321
10	4.311	4.247	4.200	4.165	4.138	4.115	4.082	4.058	4.039	4.025	4.014	3.979	3.962	3.944	3.930	3.920
11	4.005	3.941	3.895	3.860	3.832	3.810	3.776	3.752	3.734	3.719	3.708	3.673	3.656	3.638	3.624	3.613
12	3.765	3.701	3.654	3.619	3.592	3.569	3.535	3.511	3.493	3.478	3.467	3.432	3.414	3.397	3.382	3.372
13	3.571	3.507	3.461	3.425	3.398	3.375	3.341	3.317	3.298	3.284	3.272	3.237	3.219	3.202	3.187	3.176
14	3.412	3.348	3.301	3.266	3.238	3.215	3.181	3.157	3.138	3.124	3.112	3.076	3.059	3.040	3.026	3.015
15	3.278	3.214	3.167	3.132	3.104	3.081	3.047	3.022	3.004	2.989	2.977	2.942	2.923	2.905	2.891	2.880
16	3.165	3.101	3.054	3.018	2.990	2.967	2.933	2.908	2.889	2.875	2.863	2.827	2.808	2.790	2.775	2.764
17	3.068	3.003	2.956	2.920	2.892	2.869	2.835	2.810	2.791	2.776	2.764	2.728	2.709	2.691	2.676	2.664
18	2.983	2.919	2.871	2.835	2.807	2.784	2.749	2.724	2.705	2.690	2.678	2.641	2.623	2.604	2.589	2.577
19	2.909	2.844	2.797	2.761	2.732	2.709	2.674	2.649	2.630	2.614	2.602	2.565	2.547	2.528	2.512	2.501
20	2.843	2.778	2.731	2.695	2.666	2.643	2.608	2.582	2.563	2.548	2.535	2.498	2.479	2.460	2.445	2.433
21	2.785	2.720	2.672	2.636	2.607	2.584	2.548	2.523	2.503	2.488	2.475	2.438	2.419	2.400	2.384	2.372
22	2.733	2.667	2.620	2.583	2.554	2.531	2.495	2.469	2.450	2.434	2.422	2.384	2.365	2.345	2.329	2.317
23	2.686	2.620	2.572	2.535	2.506	2.483	2.447	2.421	2.401	2.386	2.373	2.335	2.316	2.296	2.280	2.268
24	2.643	2.577	2.529	2.492	2.463	2.440	2.403	2.377	2.357	2.342	2.329	2.291	2.271	2.251	2.235	2.223
25	2.604	2.538	2.490	2.453	2.424	2.400	2.364	2.337	2.317	2.302	2.289	2.250	2.230	2.210	2.194	2.182
26	2.569	2.503	2.454	2.417	2.388	2.364	2.327	2.301	2.281	2.265	2.252	2.213	2.193	2.173	2.156	2.144
27	2.536	2.470	2.421	2.384	2.354	2.330	2.294	2.267	2.247	2.231	2.218	2.179	2.159	2.138	2.122	2.109
28	2.506	2.440	2.391	2.354	2.324	2.300	2.263	2.236	2.216	2.200	2.187	2.147	2.127	2.106	2.090	2.077
29	2.478	2.412	2.363	2.325	2.296	2.271	2.234	2.207	2.187	2.171	2.158	2.118	2.097	2.077	2.060	2.047
30	2.453	2.386	2.337	2.299	2.269	2.245	2.208	2.181	2.160	2.144	2.131	2.091	2.070	2.049	2.032	2.019
35	2.348	2.281	2.231	2.193	2.162	2.137	2.099	2.072	2.050	2.034	2.020	1.979	1.957	1.936	1.918	1.905
40	2.271	2.203	2.153	2.114	2.083	2.058	2.019	1.991	1.969	1.952	1.938	1.896	1.874	1.851	1.833	1.819
45	2.213	2.144	2.093	2.054	2.023	1.997	1.958	1.929	1.907	1.889	1.875	1.831	1.809	1.786	1.767	1.752
50	2.167	2.098	2.046	2.007	1.975	1.949	1.909	1.880	1.857	1.839	1.825	1.780	1.757	1.733	1.713	1.698
60	2.098	2.028	1.976	1.936	1.904	1.877	1.836	1.806	1.783	1.764	1.749	1.703	1.678	1.653	1.633	1.617
70	2.050	1.980	1.927	1.886	1.853	1.826	1.785	1.754	1.730	1.711	1.695	1.647	1.622	1.596	1.574	1.558
80	2.015	1.944	1.890	1.849	1.816	1.788	1.746	1.714	1.690	1.671	1.655	1.605	1.579	1.552	1.530	1.512
100	1.965	1.893	1.839	1.797	1.763	1.735	1.692	1.659	1.634	1.614	1.598	1.546	1.518	1.490	1.466	1.447
125	1.926	1.853	1.799	1.756	1.721	1.693	1.648	1.615	1.589	1.569	1.551	1.498	1.469	1.438	1.412	1.392
150	1.900	1.827	1.772	1.729	1.694	1.665	1.620	1.586	1.559	1.538	1.520	1.465	1.435	1.403	1.376	1.354
175	1.882	1.808	1.753	1.709	1.674	1.645	1.599	1.564	1.538	1.516	1.498	1.441	1.410	1.377	1.349	1.326
200	1.868	1.794	1.738	1.694	1.659	1.629	1.583	1.548	1.521	1.499	1.481	1.423	1.391	1.357	1.328	1.304
300	1.836	1.761	1.705	1.660	1.624	1.594	1.547	1.511	1.483	1.460	1.441	1.380	1.346	1.309	1.276	1.249
400	1.820	1.745	1.688	1.643	1.607	1.576	1.528	1.492	1.463	1.440	1.421	1.358	1.322	1.284	1.249	1.220
500	1.810	1.735	1.678	1.633	1.596	1.566	1.517	1.481	1.452	1.428	1.408	1.344	1.308	1.268	1.232	1.201
750	1.798	1.722	1.665	1.620	1.582	1.552	1.503	1.465	1.436	1.412	1.392	1.326	1.288	1.246	1.207	1.173
1000	1.791	1.716	1.658	1.613	1.576	1.544	1.495	1.458	1.428	1.404	1.383	1.317	1.278	1.235	1.195	1.159

DISTRIBUCIÓN F

$$\alpha = 0.025$$



Ejemplo: para $n_1 = 5$, $n_2 = 10$ y $\alpha = 0.025$, $F_{5,10;0.025} = 4.236$ significa que $P(F_{5,10} > 4.236) = 0.025$.

n_2	n_1															
	1	2	3	4	5	6	7	8	9	10	12	15	16	18	20	24
1	647.8	799.5	864.2	899.6	921.8	937.1	948.2	956.7	963.3	968.6	976.7	984.9	986.9	990.3	993.1	997.2
2	38.51	39.00	39.17	39.25	39.30	39.33	39.36	39.37	39.39	39.40	39.41	39.43	39.44	39.44	39.45	39.46
3	17.44	16.04	15.44	15.10	14.88	14.73	14.62	14.54	14.47	14.42	14.34	14.25	14.23	14.20	14.17	14.12
4	12.22	10.65	9.979	9.605	9.364	9.197	9.074	8.980	8.905	8.844	8.751	8.657	8.633	8.592	8.560	8.511
5	10.01	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681	6.619	6.525	6.428	6.403	6.362	6.329	6.278
6	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523	5.461	5.366	5.269	5.244	5.202	5.168	5.117
7	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823	4.761	4.666	4.568	4.543	4.501	4.467	4.415
8	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357	4.295	4.200	4.101	4.076	4.034	3.999	3.947
9	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026	3.964	3.868	3.769	3.744	3.701	3.667	3.614
10	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779	3.717	3.621	3.522	3.496	3.453	3.419	3.365
11	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588	3.526	3.430	3.330	3.304	3.261	3.226	3.173
12	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436	3.374	3.277	3.177	3.152	3.108	3.073	3.019
13	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312	3.250	3.153	3.053	3.027	2.983	2.948	2.893
14	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209	3.147	3.050	2.949	2.923	2.879	2.844	2.789
15	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123	3.060	2.963	2.862	2.836	2.792	2.756	2.701
16	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049	2.986	2.889	2.788	2.761	2.717	2.681	2.625
17	6.042	4.619	4.011	3.663	3.438	3.277	3.156	3.061	2.985	2.922	2.825	2.723	2.697	2.652	2.616	2.560
18	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929	2.866	2.769	2.667	2.640	2.596	2.559	2.503
19	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880	2.817	2.720	2.617	2.591	2.546	2.509	2.452
20	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837	2.774	2.676	2.573	2.547	2.501	2.464	2.408
21	5.827	4.420	3.819	3.475	3.250	3.090	2.969	2.874	2.798	2.735	2.637	2.534	2.507	2.462	2.425	2.368
22	5.786	4.383	3.783	3.440	3.215	3.055	2.934	2.839	2.763	2.700	2.602	2.498	2.472	2.426	2.389	2.331
23	5.750	4.349	3.750	3.408	3.183	3.023	2.902	2.808	2.731	2.668	2.570	2.466	2.440	2.394	2.357	2.299
24	5.717	4.319	3.721	3.379	3.155	2.995	2.874	2.779	2.703	2.640	2.541	2.437	2.411	2.365	2.327	2.269
25	5.686	4.291	3.694	3.353	3.129	2.969	2.848	2.753	2.677	2.613	2.515	2.411	2.384	2.338	2.300	2.242
26	5.659	4.265	3.670	3.329	3.105	2.945	2.824	2.729	2.653	2.590	2.491	2.387	2.360	2.314	2.276	2.217
27	5.633	4.242	3.647	3.307	3.083	2.923	2.802	2.707	2.631	2.568	2.469	2.364	2.337	2.291	2.253	2.195
28	5.610	4.221	3.626	3.286	3.063	2.903	2.782	2.687	2.611	2.547	2.448	2.344	2.317	2.270	2.232	2.174
29	5.588	4.201	3.607	3.267	3.044	2.884	2.763	2.669	2.592	2.529	2.430	2.325	2.298	2.251	2.213	2.154
30	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575	2.511	2.412	2.307	2.280	2.233	2.195	2.136
35	5.485	4.106	3.517	3.179	2.956	2.796	2.676	2.581	2.504	2.440	2.341	2.235	2.207	2.160	2.122	2.062
40	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452	2.388	2.288	2.182	2.154	2.107	2.068	2.007
45	5.377	4.009	3.422	3.086	2.864	2.705	2.584	2.489	2.412	2.348	2.248	2.141	2.113	2.066	2.026	1.965
50	5.340	3.975	3.390	3.054	2.833	2.674	2.553	2.458	2.381	2.317	2.216	2.109	2.081	2.033	1.993	1.931
60	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334	2.270	2.169	2.061	2.033	1.985	1.944	1.882
70	5.247	3.890	3.309	2.975	2.754	2.595	2.474	2.379	2.302	2.237	2.136	2.028	1.999	1.950	1.910	1.847
80	5.218	3.864	3.284	2.950	2.730	2.571	2.450	2.355	2.277	2.213	2.111	2.003	1.974	1.925	1.884	1.820
100	5.179	3.828	3.250	2.917	2.696	2.537	2.417	2.321	2.244	2.179	2.077	1.968	1.939	1.890	1.849	1.784
125	5.147	3.800	3.222	2.890	2.670	2.511	2.390	2.295	2.217	2.153	2.050	1.940	1.911	1.862	1.820	1.755
150	5.126	3.781	3.204	2.872	2.652	2.494	2.373	2.278	2.200	2.135	2.032	1.922	1.893	1.843	1.801	1.736
175	5.111	3.768	3.192	2.860	2.640	2.481	2.361	2.265	2.187	2.122	2.020	1.909	1.880	1.830	1.788	1.722
200	5.100	3.758	3.182	2.850	2.630	2.472	2.351	2.255	2.178	2.113	2.010	1.900	1.870	1.820	1.778	1.712
300	5.075	3.735	3.160	2.829	2.609	2.451	2.330	2.234	2.156	2.091	1.988	1.877	1.848	1.797	1.755	1.688
400	5.062	3.723	3.149	2.818	2.598	2.440	2.319	2.224	2.146	2.080	1.977	1.866	1.836	1.786	1.743	1.676
500	5.054	3.716	3.142	2.811	2.592	2.434	2.313	2.217	2.139	2.074	1.971	1.859	1.830	1.779	1.736	1.669
750	5.044	3.707	3.134	2.803	2.583	2.425	2.304	2.209	2.131	2.065	1.962	1.850	1.821	1.770	1.727	1.659
1000	5.039	3.703	3.129	2.799	2.579	2.421	2.300	2.204	2.126	2.061	1.958	1.846	1.816	1.765	1.722	1.654

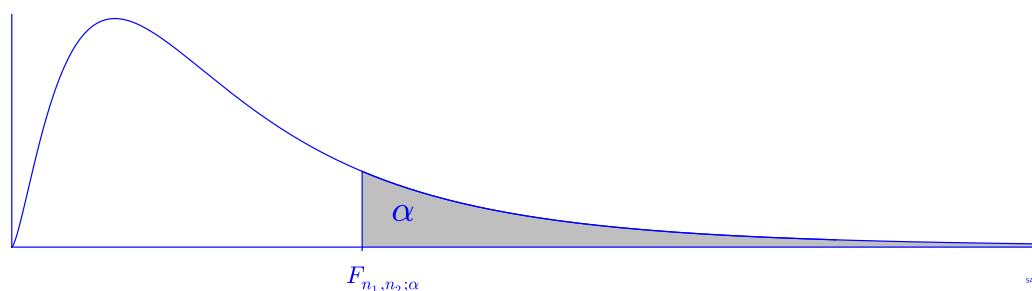
DISTRIBUCIÓN F

$$\alpha = 0.025$$

n_2	n_1															
	25	30	35	40	45	50	60	70	80	90	100	150	200	300	500	1000
1	998.1	1001	1004	1006	1007	1008	1010	1011	1012	1013	1013	1015	1016	1017	1017	1018
2	39.46	39.46	39.47	39.47	39.48	39.48	39.48	39.48	39.49	39.49	39.49	39.49	39.49	39.49	39.50	39.50
3	14.12	14.08	14.06	14.04	14.02	14.01	13.99	13.98	13.97	13.96	13.96	13.94	13.93	13.92	13.91	13.91
4	8.501	8.461	8.433	8.411	8.394	8.381	8.360	8.346	8.335	8.326	8.319	8.299	8.289	8.278	8.270	8.264
5	6.268	6.227	6.197	6.175	6.158	6.144	6.123	6.107	6.096	6.087	6.080	6.059	6.048	6.037	6.028	6.022
6	5.107	5.065	5.035	5.012	4.995	4.980	4.959	4.943	4.932	4.923	4.915	4.893	4.882	4.871	4.862	4.856
7	4.405	4.362	4.332	4.309	4.291	4.276	4.254	4.239	4.227	4.218	4.210	4.188	4.176	4.165	4.156	4.149
8	3.937	3.894	3.863	3.840	3.821	3.807	3.784	3.768	3.756	3.747	3.739	3.716	3.705	3.693	3.684	3.677
9	3.604	3.560	3.529	3.505	3.487	3.472	3.449	3.433	3.421	3.411	3.403	3.380	3.368	3.357	3.347	3.340
10	3.355	3.311	3.279	3.255	3.237	3.221	3.198	3.182	3.169	3.160	3.152	3.128	3.116	3.104	3.094	3.087
11	3.162	3.118	3.086	3.061	3.042	3.027	3.004	2.987	2.974	2.964	2.956	2.932	2.920	2.908	2.898	2.890
12	3.008	2.963	2.931	2.906	2.887	2.871	2.848	2.831	2.818	2.808	2.800	2.775	2.763	2.750	2.740	2.733
13	2.882	2.837	2.805	2.780	2.760	2.744	2.720	2.703	2.690	2.680	2.671	2.647	2.634	2.621	2.611	2.603
14	2.778	2.732	2.699	2.674	2.654	2.638	2.614	2.597	2.583	2.573	2.565	2.539	2.526	2.513	2.503	2.495
15	2.689	2.644	2.610	2.585	2.565	2.549	2.524	2.506	2.493	2.482	2.474	2.448	2.435	2.422	2.411	2.403
16	2.614	2.568	2.534	2.509	2.488	2.472	2.447	2.429	2.415	2.405	2.396	2.370	2.357	2.343	2.333	2.324
17	2.548	2.502	2.468	2.442	2.422	2.405	2.380	2.362	2.348	2.337	2.329	2.302	2.289	2.275	2.264	2.256
18	2.491	2.445	2.410	2.384	2.364	2.347	2.321	2.303	2.289	2.278	2.269	2.242	2.229	2.215	2.204	2.195
19	2.441	2.394	2.359	2.333	2.312	2.295	2.270	2.251	2.237	2.226	2.217	2.190	2.176	2.162	2.150	2.142
20	2.396	2.349	2.314	2.287	2.266	2.249	2.223	2.205	2.190	2.179	2.170	2.142	2.128	2.114	2.103	2.094
21	2.356	2.308	2.273	2.246	2.225	2.208	2.182	2.163	2.148	2.137	2.128	2.100	2.086	2.072	2.060	2.051
22	2.320	2.272	2.237	2.210	2.188	2.171	2.145	2.125	2.111	2.099	2.090	2.062	2.047	2.033	2.021	2.012
23	2.287	2.239	2.204	2.176	2.155	2.137	2.111	2.091	2.077	2.065	2.056	2.027	2.013	1.998	1.986	1.977
24	2.257	2.209	2.173	2.146	2.124	2.107	2.080	2.060	2.045	2.034	2.024	1.995	1.981	1.966	1.954	1.945
25	2.230	2.182	2.146	2.118	2.096	2.079	2.052	2.032	2.017	2.005	1.996	1.966	1.952	1.936	1.924	1.915
26	2.205	2.157	2.120	2.093	2.071	2.053	2.026	2.006	1.991	1.979	1.969	1.940	1.925	1.909	1.897	1.888
27	2.183	2.133	2.097	2.069	2.047	2.029	2.002	1.982	1.966	1.954	1.945	1.915	1.900	1.884	1.872	1.862
28	2.161	2.112	2.076	2.048	2.025	2.007	1.980	1.959	1.944	1.932	1.922	1.892	1.877	1.861	1.848	1.839
29	2.142	2.092	2.056	2.028	2.005	1.987	1.959	1.939	1.923	1.911	1.901	1.871	1.855	1.840	1.827	1.817
30	2.124	2.074	2.037	2.009	1.986	1.968	1.940	1.920	1.904	1.892	1.882	1.851	1.835	1.819	1.806	1.797
35	2.049	1.999	1.961	1.932	1.909	1.890	1.861	1.840	1.824	1.811	1.801	1.769	1.753	1.736	1.722	1.712
40	1.994	1.943	1.905	1.875	1.852	1.832	1.803	1.781	1.764	1.751	1.741	1.708	1.691	1.673	1.659	1.648
45	1.952	1.900	1.861	1.831	1.807	1.788	1.757	1.735	1.718	1.705	1.694	1.660	1.642	1.624	1.609	1.598
50	1.919	1.866	1.827	1.796	1.772	1.752	1.721	1.698	1.681	1.667	1.656	1.621	1.603	1.584	1.569	1.557
60	1.869	1.815	1.775	1.744	1.719	1.699	1.667	1.643	1.625	1.611	1.599	1.563	1.543	1.524	1.507	1.495
70	1.833	1.779	1.739	1.707	1.681	1.660	1.628	1.604	1.585	1.570	1.558	1.520	1.500	1.480	1.463	1.449
80	1.807	1.752	1.711	1.679	1.653	1.632	1.599	1.574	1.555	1.540	1.527	1.488	1.467	1.446	1.428	1.414
100	1.770	1.715	1.673	1.640	1.614	1.592	1.558	1.532	1.512	1.496	1.483	1.442	1.420	1.397	1.378	1.363
125	1.741	1.685	1.642	1.609	1.582	1.559	1.524	1.498	1.478	1.461	1.448	1.405	1.381	1.357	1.336	1.320
150	1.722	1.665	1.622	1.588	1.561	1.538	1.502	1.475	1.454	1.437	1.423	1.379	1.355	1.329	1.307	1.290
175	1.708	1.651	1.608	1.573	1.546	1.522	1.486	1.459	1.437	1.420	1.406	1.360	1.335	1.309	1.286	1.267
200	1.698	1.640	1.597	1.562	1.534	1.511	1.474	1.447	1.425	1.407	1.393	1.346	1.320	1.293	1.269	1.250
300	1.674	1.616	1.571	1.536	1.507	1.484	1.446	1.417	1.395	1.377	1.361	1.312	1.285	1.255	1.228	1.206
400	1.662	1.603	1.558	1.523	1.494	1.470	1.432	1.403	1.380	1.361	1.345	1.294	1.266	1.234	1.206	1.182
500	1.655	1.596	1.551	1.515	1.486	1.462	1.423	1.394	1.370	1.351	1.336	1.284	1.254	1.222	1.192	1.166
750	1.645	1.586	1.541	1.505	1.475	1.451	1.412	1.382	1.358	1.339	1.322	1.269	1.239	1.204	1.172	1.144
1000	1.640	1.581	1.535	1.499	1.470	1.445	1.406	1.376	1.352	1.332	1.316	1.262	1.230	1.195	1.162	1.132

DISTRIBUCIÓN F

$\alpha = 0.05$



Ejemplo: para $n_1 = 5$, $n_2 = 10$ y $\alpha = 0.05$, $F_{5,10;0.05} = 3.326$, significa que $P(F_{5,10} > 3.326) = 0.05$.

n_2	n_1															
	1	2	3	4	5	6	7	8	9	10	12	15	16	18	20	24
1	161.4	199.5	215.7	224.6	230.2	234.0	236.8	238.9	240.5	241.9	243.9	245.9	246.5	247.3	248.0	249.1
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.41	19.43	19.43	19.44	19.45	19.45
3	10.13	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	8.786	8.745	8.703	8.692	8.675	8.660	8.639
4	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	5.964	5.912	5.858	5.844	5.821	5.803	5.774
5	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	4.735	4.678	4.619	4.604	4.579	4.558	4.527
6	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	4.060	4.000	3.938	3.922	3.896	3.874	3.841
7	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	3.637	3.575	3.511	3.494	3.467	3.445	3.410
8	5.318	4.459	4.066	3.838	3.687	3.581	3.500	3.438	3.388	3.347	3.284	3.218	3.202	3.173	3.150	3.115
9	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230	3.179	3.137	3.073	3.006	2.989	2.960	2.936	2.900
10	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072	3.020	2.978	2.913	2.845	2.828	2.798	2.774	2.737
11	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948	2.896	2.854	2.788	2.719	2.701	2.671	2.646	2.609
12	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849	2.796	2.753	2.687	2.617	2.599	2.568	2.544	2.505
13	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767	2.714	2.671	2.604	2.533	2.515	2.484	2.459	2.420
14	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	2.602	2.534	2.463	2.445	2.413	2.388	2.349
15	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	2.544	2.475	2.403	2.385	2.353	2.328	2.288
16	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	2.494	2.425	2.352	2.333	2.302	2.276	2.235
17	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548	2.494	2.450	2.381	2.308	2.289	2.257	2.230	2.190
18	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	2.412	2.342	2.269	2.250	2.217	2.191	2.150
19	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	2.378	2.308	2.234	2.215	2.182	2.155	2.114
20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348	2.278	2.203	2.184	2.151	2.124	2.082
21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	2.321	2.250	2.176	2.156	2.123	2.096	2.054
22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.397	2.342	2.297	2.226	2.151	2.131	2.098	2.071	2.028
23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	2.275	2.204	2.128	2.109	2.075	2.048	2.005
24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	2.255	2.183	2.108	2.088	2.054	2.027	1.984
25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	2.236	2.165	2.089	2.069	2.035	2.007	1.964
26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	2.220	2.148	2.072	2.052	2.018	1.990	1.946
27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	2.204	2.132	2.056	2.036	2.002	1.974	1.930
28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	2.190	2.118	2.041	2.021	1.987	1.959	1.915
29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	2.177	2.104	2.027	2.007	1.973	1.945	1.901
30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165	2.092	2.015	1.995	1.960	1.932	1.887
35	4.121	3.267	2.874	2.641	2.485	2.372	2.285	2.217	2.161	2.114	2.041	1.963	1.942	1.907	1.878	1.833
40	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	2.077	2.003	1.924	1.904	1.868	1.839	1.793
45	4.057	3.204	2.812	2.579	2.422	2.308	2.221	2.152	2.096	2.049	1.974	1.895	1.874	1.838	1.808	1.762
50	4.034	3.183	2.790	2.557	2.400	2.286	2.199	2.130	2.073	2.026	1.952	1.871	1.850	1.814	1.784	1.737
60	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	1.993	1.917	1.836	1.815	1.778	1.748	1.700
70	3.978	3.128	2.736	2.503	2.346	2.231	2.143	2.074	2.017	1.969	1.893	1.812	1.790	1.753	1.722	1.674
80	3.960	3.111	2.719	2.486	2.329	2.214	2.126	2.056	1.999	1.951	1.875	1.793	1.772	1.734	1.703	1.654
100	3.936	3.087	2.696	2.463	2.305	2.191	2.103	2.032	1.975	1.927	1.850	1.768	1.746	1.708	1.676	1.627
125	3.917	3.069	2.677	2.444	2.287	2.172	2.084	2.013	1.956	1.907	1.830	1.747	1.725	1.687	1.655	1.605
150	3.904	3.056	2.665	2.432	2.274	2.160	2.071	2.001	1.943	1.894	1.817	1.734	1.711	1.673	1.641	1.590
175	3.895	3.048	2.656	2.423	2.266	2.151	2.062	1.992	1.934	1.885	1.808	1.724	1.702	1.663	1.631	1.580
200	3.888	3.041	2.650	2.417	2.259	2.144	2.056	1.985	1.927	1.878	1.801	1.717	1.694	1.656	1.623	1.572
300	3.873	3.026	2.635	2.402	2.244	2.129	2.040	1.969	1.911	1.862	1.785	1.700	1.677	1.638	1.606	1.554
400	3.865	3.018	2.627	2.394	2.237	2.121	2.032	1.962	1.903	1.854	1.776	1.691	1.669	1.630	1.597	1.545
500	3.860	3.014	2.623	2.390	2.232	2.117	2.028	1.957	1.899	1.850	1.772	1.686	1.664	1.625	1.592	1.539
750	3.854	3.008	2.617	2.384	2.226	2.111	2.022	1.951	1.892	1.843	1.765	1.680	1.657	1.618	1.585	1.532
1000	3.851	3.005	2.614	2.381	2.223	2.108	2.019	1.948	1.889	1.840	1.762	1.676	1.654	1.614	1.581	1.528

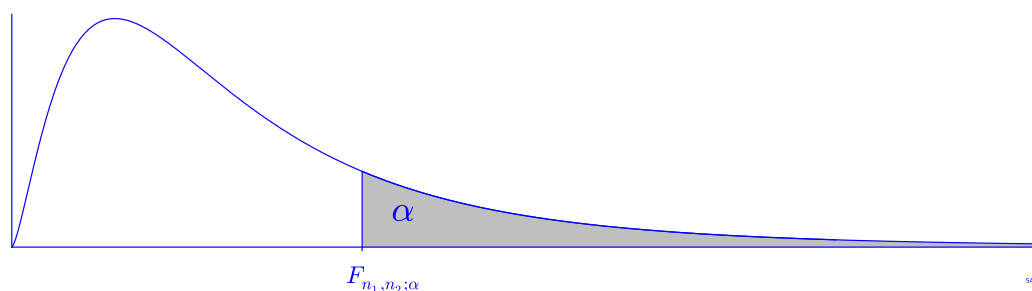
DISTRIBUCIÓN F

$$\alpha = 0.05$$

n_2	n_1															
	25	30	35	40	45	50	60	70	80	90	100	150	200	300	500	1000
1	249.3	250.1	250.7	251.1	251.5	251.8	252.2	252.5	252.7	252.9	253.0	253.5	253.7	253.9	254.1	254.2
2	19.46	19.46	19.47	19.47	19.47	19.48	19.48	19.48	19.48	19.48	19.49	19.49	19.49	19.49	19.49	19.49
3	8.634	8.617	8.604	8.594	8.587	8.581	8.572	8.566	8.561	8.557	8.554	8.545	8.540	8.536	8.532	8.529
4	5.769	5.746	5.729	5.717	5.707	5.699	5.688	5.679	5.673	5.668	5.664	5.652	5.646	5.640	5.635	5.632
5	4.521	4.496	4.478	4.464	4.453	4.444	4.431	4.422	4.415	4.409	4.405	4.392	4.385	4.378	4.373	4.369
6	3.835	3.808	3.789	3.774	3.763	3.754	3.740	3.730	3.722	3.716	3.712	3.698	3.690	3.683	3.678	3.673
7	3.404	3.376	3.356	3.340	3.328	3.319	3.304	3.294	3.286	3.280	3.275	3.260	3.252	3.245	3.239	3.234
8	3.108	3.079	3.059	3.043	3.030	3.020	3.005	2.994	2.986	2.980	2.975	2.959	2.951	2.943	2.937	2.932
9	2.893	2.864	2.842	2.826	2.813	2.803	2.787	2.776	2.768	2.761	2.756	2.739	2.731	2.723	2.717	2.712
10	2.730	2.700	2.678	2.661	2.648	2.637	2.621	2.610	2.601	2.594	2.588	2.572	2.563	2.555	2.548	2.543
11	2.601	2.570	2.548	2.531	2.517	2.507	2.490	2.478	2.469	2.462	2.457	2.439	2.431	2.422	2.415	2.410
12	2.498	2.466	2.443	2.426	2.412	2.401	2.384	2.372	2.363	2.356	2.350	2.332	2.323	2.314	2.307	2.302
13	2.412	2.380	2.357	2.339	2.325	2.314	2.297	2.284	2.275	2.267	2.261	2.243	2.234	2.225	2.218	2.212
14	2.341	2.308	2.284	2.266	2.252	2.241	2.223	2.210	2.201	2.193	2.187	2.169	2.159	2.150	2.142	2.136
15	2.280	2.247	2.223	2.204	2.190	2.178	2.160	2.147	2.137	2.130	2.123	2.105	2.095	2.085	2.078	2.072
16	2.227	2.194	2.169	2.151	2.136	2.124	2.106	2.093	2.083	2.075	2.068	2.049	2.039	2.030	2.022	2.016
17	2.181	2.148	2.123	2.104	2.089	2.077	2.058	2.045	2.035	2.027	2.020	2.001	1.991	1.981	1.973	1.967
18	2.141	2.107	2.082	2.063	2.048	2.035	2.017	2.003	1.993	1.985	1.978	1.958	1.948	1.938	1.929	1.923
19	2.106	2.071	2.046	2.026	2.011	1.999	1.980	1.966	1.955	1.947	1.940	1.920	1.910	1.899	1.891	1.884
20	2.074	2.039	2.013	1.994	1.978	1.966	1.946	1.932	1.922	1.913	1.907	1.886	1.875	1.865	1.856	1.850
21	2.045	2.010	1.984	1.965	1.949	1.936	1.916	1.902	1.891	1.883	1.876	1.855	1.845	1.834	1.825	1.818
22	2.020	1.984	1.958	1.938	1.922	1.909	1.889	1.875	1.864	1.856	1.849	1.827	1.817	1.806	1.797	1.790
23	1.996	1.961	1.934	1.914	1.898	1.885	1.865	1.850	1.839	1.830	1.823	1.802	1.791	1.780	1.771	1.764
24	1.975	1.939	1.912	1.892	1.876	1.863	1.842	1.828	1.816	1.808	1.800	1.779	1.768	1.756	1.747	1.740
25	1.955	1.919	1.892	1.872	1.855	1.842	1.822	1.807	1.796	1.787	1.779	1.757	1.746	1.735	1.725	1.718
26	1.938	1.901	1.874	1.853	1.837	1.823	1.803	1.788	1.776	1.767	1.760	1.738	1.726	1.714	1.705	1.698
27	1.921	1.884	1.857	1.836	1.819	1.806	1.785	1.770	1.758	1.749	1.742	1.719	1.708	1.696	1.686	1.679
28	1.906	1.869	1.841	1.820	1.803	1.790	1.769	1.754	1.742	1.733	1.725	1.702	1.691	1.679	1.669	1.662
29	1.891	1.854	1.827	1.806	1.789	1.775	1.754	1.738	1.726	1.717	1.710	1.686	1.675	1.663	1.653	1.645
30	1.878	1.841	1.813	1.792	1.775	1.761	1.740	1.724	1.712	1.703	1.695	1.672	1.660	1.647	1.637	1.630
35	1.824	1.786	1.757	1.735	1.718	1.703	1.681	1.665	1.652	1.643	1.635	1.610	1.598	1.585	1.574	1.566
40	1.783	1.744	1.715	1.693	1.675	1.660	1.637	1.621	1.608	1.597	1.589	1.564	1.551	1.537	1.526	1.517
45	1.752	1.713	1.683	1.660	1.642	1.626	1.603	1.586	1.573	1.562	1.554	1.527	1.513	1.499	1.488	1.479
50	1.727	1.687	1.657	1.634	1.615	1.599	1.576	1.558	1.544	1.534	1.525	1.498	1.484	1.469	1.457	1.448
60	1.690	1.649	1.618	1.594	1.575	1.559	1.534	1.516	1.502	1.491	1.481	1.453	1.438	1.422	1.409	1.399
70	1.664	1.622	1.591	1.566	1.546	1.530	1.505	1.486	1.471	1.459	1.450	1.420	1.404	1.388	1.374	1.364
80	1.644	1.602	1.570	1.545	1.525	1.508	1.482	1.463	1.448	1.436	1.426	1.395	1.379	1.361	1.347	1.336
100	1.616	1.573	1.541	1.515	1.494	1.477	1.450	1.430	1.415	1.402	1.392	1.359	1.342	1.323	1.308	1.296
125	1.594	1.551	1.517	1.491	1.470	1.452	1.425	1.404	1.388	1.375	1.364	1.330	1.311	1.291	1.275	1.262
150	1.580	1.535	1.502	1.475	1.454	1.436	1.407	1.386	1.369	1.356	1.345	1.309	1.290	1.269	1.252	1.238
175	1.569	1.525	1.491	1.464	1.442	1.424	1.395	1.373	1.356	1.342	1.331	1.294	1.274	1.253	1.234	1.220
200	1.561	1.516	1.482	1.455	1.433	1.415	1.386	1.364	1.346	1.332	1.321	1.283	1.263	1.240	1.221	1.205
300	1.543	1.497	1.463	1.435	1.412	1.393	1.363	1.341	1.323	1.308	1.296	1.256	1.234	1.210	1.188	1.170
400	1.534	1.488	1.453	1.425	1.402	1.383	1.352	1.329	1.311	1.296	1.283	1.242	1.219	1.193	1.170	1.150
500	1.528	1.482	1.447	1.419	1.396	1.376	1.345	1.322	1.303	1.288	1.275	1.233	1.210	1.183	1.159	1.138
750	1.521	1.474	1.439	1.410	1.387	1.368	1.336	1.313	1.294	1.278	1.265	1.222	1.197	1.169	1.143	1.120
1000	1.517	1.471	1.435	1.406	1.383	1.363	1.332	1.308	1.289	1.273	1.260	1.216	1.190	1.161	1.134	1.110

DISTRIBUCIÓN F

$\alpha = 0.10$



Ejemplo: para $n_1 = 5$, $n_2 = 10$ y $\alpha = 0.10$, $F_{5,10;0.1} = 2.522$, significa que $P(F_{5,10} > 2.522) = 0.1$.

n_2	n_1															
	1	2	3	4	5	6	7	8	9	10	12	15	16	18	20	24
1	39.86	49.50	53.59	55.83	57.24	58.20	58.91	59.44	59.86	60.19	60.71	61.22	61.35	61.57	61.74	62.00
2	8.526	9.000	9.162	9.243	9.293	9.326	9.349	9.367	9.381	9.392	9.408	9.425	9.429	9.436	9.441	9.450
3	5.538	5.462	5.391	5.343	5.309	5.285	5.266	5.252	5.240	5.230	5.216	5.200	5.196	5.190	5.184	5.176
4	4.545	4.325	4.191	4.107	4.051	4.010	3.979	3.955	3.936	3.920	3.896	3.870	3.864	3.853	3.844	3.831
5	4.060	3.780	3.619	3.520	3.453	3.405	3.368	3.339	3.316	3.297	3.268	3.238	3.230	3.217	3.207	3.191
6	3.776	3.463	3.289	3.181	3.108	3.055	3.014	2.983	2.958	2.937	2.905	2.871	2.863	2.848	2.836	2.818
7	3.589	3.257	3.074	2.961	2.883	2.827	2.785	2.752	2.725	2.703	2.668	2.632	2.623	2.607	2.595	2.575
8	3.458	3.113	2.924	2.806	2.726	2.668	2.624	2.589	2.561	2.538	2.502	2.464	2.455	2.438	2.425	2.404
9	3.360	3.006	2.813	2.693	2.611	2.551	2.505	2.469	2.440	2.416	2.379	2.340	2.329	2.312	2.298	2.277
10	3.285	2.924	2.728	2.605	2.522	2.461	2.414	2.377	2.347	2.323	2.284	2.244	2.233	2.215	2.201	2.178
11	3.225	2.860	2.660	2.536	2.451	2.389	2.342	2.304	2.274	2.248	2.209	2.167	2.156	2.138	2.123	2.100
12	3.177	2.807	2.606	2.480	2.394	2.331	2.283	2.245	2.214	2.188	2.147	2.105	2.094	2.075	2.060	2.036
13	3.136	2.763	2.560	2.434	2.347	2.283	2.234	2.195	2.164	2.138	2.097	2.053	2.042	2.023	2.007	1.983
14	3.102	2.726	2.522	2.395	2.307	2.243	2.193	2.154	2.122	2.095	2.054	2.010	1.998	1.978	1.962	1.938
15	3.073	2.695	2.490	2.361	2.273	2.208	2.158	2.119	2.086	2.059	2.017	1.972	1.961	1.941	1.924	1.899
16	3.048	2.668	2.462	2.333	2.244	2.178	2.128	2.088	2.055	2.028	1.985	1.940	1.928	1.908	1.891	1.866
17	3.026	2.645	2.437	2.308	2.218	2.152	2.102	2.061	2.028	2.001	1.958	1.912	1.900	1.879	1.862	1.836
18	3.007	2.624	2.416	2.286	2.196	2.130	2.079	2.038	2.005	1.977	1.933	1.887	1.875	1.854	1.837	1.810
19	2.990	2.606	2.397	2.266	2.176	2.110	2.058	2.017	1.984	1.956	1.912	1.865	1.852	1.831	1.814	1.787
20	2.975	2.589	2.380	2.249	2.158	2.091	2.040	1.999	1.965	1.937	1.892	1.845	1.833	1.811	1.794	1.767
21	2.961	2.575	2.365	2.233	2.142	2.075	2.023	1.982	1.948	1.920	1.875	1.827	1.815	1.793	1.776	1.748
22	2.949	2.561	2.351	2.219	2.128	2.060	2.008	1.967	1.933	1.904	1.859	1.811	1.798	1.777	1.759	1.731
23	2.937	2.549	2.339	2.207	2.115	2.047	1.995	1.953	1.919	1.890	1.845	1.796	1.784	1.762	1.744	1.716
24	2.927	2.538	2.327	2.195	2.103	2.035	1.983	1.941	1.906	1.877	1.832	1.783	1.770	1.748	1.730	1.702
25	2.918	2.528	2.317	2.184	2.092	2.024	1.971	1.929	1.895	1.866	1.820	1.771	1.758	1.736	1.718	1.689
26	2.909	2.519	2.307	2.174	2.082	2.014	1.961	1.919	1.884	1.855	1.809	1.760	1.747	1.724	1.706	1.677
27	2.901	2.511	2.299	2.165	2.073	2.005	1.952	1.909	1.874	1.845	1.799	1.749	1.736	1.714	1.695	1.666
28	2.894	2.503	2.291	2.157	2.064	1.996	1.943	1.900	1.865	1.836	1.790	1.740	1.726	1.704	1.685	1.656
29	2.887	2.495	2.283	2.149	2.057	1.988	1.935	1.892	1.857	1.827	1.781	1.731	1.717	1.695	1.676	1.647
30	2.881	2.489	2.276	2.142	2.049	1.980	1.927	1.884	1.849	1.819	1.773	1.722	1.709	1.686	1.667	1.638
35	2.855	2.461	2.247	2.113	2.019	1.950	1.896	1.852	1.817	1.787	1.739	1.688	1.674	1.651	1.632	1.601
40	2.835	2.440	2.226	2.091	1.997	1.927	1.873	1.829	1.793	1.763	1.715	1.662	1.649	1.625	1.605	1.574
45	2.820	2.425	2.210	2.074	1.980	1.909	1.855	1.811	1.774	1.744	1.695	1.643	1.629	1.605	1.585	1.553
50	2.809	2.412	2.197	2.061	1.966	1.895	1.840	1.796	1.760	1.729	1.680	1.627	1.613	1.588	1.568	1.536
60	2.791	2.393	2.177	2.041	1.946	1.875	1.819	1.775	1.738	1.707	1.657	1.603	1.589	1.564	1.543	1.511
70	2.779	2.380	2.164	2.027	1.931	1.860	1.804	1.760	1.723	1.691	1.641	1.587	1.572	1.547	1.526	1.493
80	2.769	2.370	2.154	2.016	1.921	1.849	1.793	1.748	1.711	1.680	1.629	1.574	1.559	1.534	1.513	1.479
100	2.756	2.356	2.139	2.002	1.906	1.834	1.778	1.732	1.695	1.663	1.612	1.557	1.542	1.516	1.494	1.460
125	2.746	2.346	2.128	1.990	1.894	1.822	1.765	1.720	1.682	1.650	1.599	1.543	1.528	1.502	1.480	1.445
150	2.739	2.338	2.121	1.983	1.886	1.814	1.757	1.712	1.674	1.642	1.590	1.533	1.518	1.492	1.470	1.434
175	2.734	2.333	2.115	1.977	1.880	1.808	1.751	1.706	1.668	1.635	1.584	1.527	1.512	1.485	1.463	1.427
200	2.731	2.329	2.111	1.973	1.876	1.804	1.747	1.701	1.663	1.631	1.579	1.522	1.507	1.480	1.458	1.422
300	2.722	2.320	2.102	1.964	1.867	1.794	1.737	1.691	1.652	1.620	1.568	1.510	1.495	1.468	1.445	1.409
400	2.718	2.316	2.098	1.959	1.862	1.789	1.732	1.686	1.647	1.615	1.562	1.504	1.489	1.462	1.439	1.402
500	2.716	2.313	2.095	1.956	1.859	1.786	1.729	1.683	1.644	1.612	1.559	1.501	1.485	1.458	1.435	1.399
750	2.712	2.310	2.091	1.952	1.855	1.782	1.725	1.678	1.640	1.607	1.555	1.496	1.481	1.453	1.430	1.393
1000	2.711	2.308	2.089	1.950	1.853	1.780	1.723	1.676	1.638	1.605	1.552	1.494	1.478	1.451	1.428	1.391

DISTRIBUCIÓN F

$$\alpha = 0.10$$

n_2	n_1															
	25	30	35	40	45	50	60	70	80	90	100	150	200	300	500	1000
1	62.05	62.26	62.42	62.53	62.62	62.69	62.79	62.87	62.93	62.97	63.01	63.11	63.17	63.22	63.26	63.30
2	9.451	9.458	9.463	9.466	9.469	9.471	9.475	9.477	9.479	9.480	9.481	9.485	9.486	9.488	9.489	9.490
3	5.175	5.168	5.163	5.160	5.157	5.155	5.151	5.149	5.147	5.145	5.144	5.141	5.139	5.137	5.136	5.135
4	3.828	3.817	3.810	3.804	3.799	3.795	3.790	3.786	3.782	3.780	3.778	3.772	3.769	3.767	3.764	3.762
5	3.187	3.174	3.165	3.157	3.152	3.147	3.140	3.135	3.132	3.129	3.126	3.119	3.116	3.112	3.109	3.107
6	2.815	2.800	2.789	2.781	2.775	2.770	2.762	2.756	2.752	2.749	2.746	2.738	2.734	2.730	2.727	2.725
7	2.571	2.555	2.544	2.535	2.528	2.523	2.514	2.508	2.504	2.500	2.497	2.488	2.484	2.480	2.476	2.473
8	2.400	2.383	2.371	2.361	2.354	2.348	2.339	2.333	2.328	2.324	2.321	2.312	2.307	2.302	2.298	2.295
9	2.272	2.255	2.242	2.232	2.224	2.218	2.208	2.202	2.196	2.192	2.189	2.179	2.174	2.169	2.165	2.162
10	2.174	2.155	2.142	2.132	2.124	2.117	2.107	2.100	2.095	2.090	2.087	2.077	2.071	2.066	2.062	2.059
11	2.095	2.076	2.062	2.052	2.043	2.036	2.026	2.019	2.013	2.009	2.005	1.994	1.989	1.983	1.979	1.975
12	2.031	2.011	1.997	1.986	1.977	1.970	1.960	1.952	1.946	1.942	1.938	1.927	1.921	1.915	1.911	1.907
13	1.978	1.958	1.943	1.931	1.923	1.915	1.904	1.896	1.890	1.886	1.882	1.870	1.864	1.858	1.853	1.850
14	1.933	1.912	1.897	1.885	1.876	1.869	1.857	1.849	1.843	1.838	1.834	1.822	1.816	1.810	1.805	1.801
15	1.894	1.873	1.857	1.845	1.836	1.828	1.817	1.808	1.802	1.797	1.793	1.781	1.774	1.768	1.763	1.759
16	1.860	1.839	1.823	1.811	1.801	1.793	1.782	1.773	1.766	1.761	1.757	1.744	1.738	1.731	1.726	1.722
17	1.831	1.809	1.793	1.781	1.771	1.763	1.751	1.742	1.735	1.730	1.726	1.713	1.706	1.699	1.694	1.690
18	1.805	1.783	1.766	1.754	1.744	1.736	1.723	1.714	1.707	1.702	1.698	1.684	1.678	1.671	1.665	1.661
19	1.782	1.759	1.743	1.730	1.720	1.711	1.699	1.690	1.683	1.677	1.673	1.659	1.652	1.645	1.639	1.635
20	1.761	1.738	1.721	1.708	1.698	1.690	1.677	1.667	1.660	1.655	1.650	1.636	1.629	1.622	1.616	1.612
21	1.742	1.719	1.702	1.689	1.678	1.670	1.657	1.647	1.640	1.634	1.630	1.616	1.608	1.601	1.595	1.591
22	1.726	1.702	1.685	1.671	1.661	1.652	1.639	1.629	1.622	1.616	1.611	1.597	1.590	1.582	1.576	1.571
23	1.710	1.686	1.669	1.655	1.645	1.636	1.622	1.613	1.605	1.599	1.594	1.580	1.572	1.565	1.558	1.554
24	1.696	1.672	1.654	1.641	1.630	1.621	1.607	1.597	1.590	1.584	1.579	1.564	1.556	1.549	1.542	1.538
25	1.683	1.659	1.641	1.627	1.616	1.607	1.593	1.583	1.576	1.569	1.565	1.549	1.542	1.534	1.527	1.523
26	1.671	1.647	1.629	1.615	1.604	1.594	1.581	1.570	1.562	1.556	1.551	1.536	1.528	1.520	1.514	1.509
27	1.660	1.636	1.617	1.603	1.592	1.583	1.569	1.558	1.550	1.544	1.539	1.523	1.515	1.507	1.501	1.496
28	1.650	1.625	1.607	1.592	1.581	1.572	1.558	1.547	1.539	1.533	1.528	1.512	1.504	1.495	1.489	1.484
29	1.640	1.616	1.597	1.583	1.571	1.562	1.547	1.537	1.529	1.522	1.517	1.501	1.493	1.484	1.478	1.472
30	1.632	1.606	1.588	1.573	1.562	1.552	1.538	1.527	1.519	1.512	1.507	1.491	1.482	1.474	1.467	1.462
35	1.595	1.569	1.550	1.535	1.523	1.513	1.497	1.486	1.478	1.471	1.465	1.448	1.439	1.430	1.423	1.417
40	1.568	1.541	1.521	1.506	1.493	1.483	1.467	1.455	1.447	1.439	1.434	1.416	1.406	1.397	1.389	1.383
45	1.546	1.519	1.499	1.483	1.470	1.460	1.443	1.431	1.422	1.415	1.409	1.390	1.380	1.370	1.362	1.356
50	1.529	1.502	1.481	1.465	1.452	1.441	1.424	1.412	1.402	1.395	1.388	1.369	1.359	1.349	1.340	1.333
60	1.504	1.476	1.454	1.437	1.424	1.413	1.395	1.382	1.372	1.364	1.358	1.337	1.326	1.315	1.306	1.299
70	1.486	1.457	1.435	1.418	1.404	1.392	1.374	1.361	1.350	1.342	1.335	1.314	1.302	1.291	1.281	1.273
80	1.472	1.443	1.420	1.403	1.388	1.377	1.358	1.344	1.334	1.325	1.318	1.296	1.284	1.271	1.261	1.253
100	1.453	1.423	1.400	1.382	1.367	1.355	1.336	1.321	1.310	1.301	1.293	1.270	1.257	1.244	1.232	1.223
125	1.437	1.407	1.383	1.365	1.350	1.337	1.317	1.302	1.291	1.281	1.273	1.248	1.235	1.220	1.208	1.198
150	1.427	1.396	1.372	1.353	1.338	1.325	1.305	1.289	1.277	1.268	1.259	1.233	1.219	1.204	1.191	1.181
175	1.420	1.388	1.364	1.345	1.330	1.317	1.296	1.280	1.268	1.258	1.249	1.223	1.208	1.192	1.178	1.167
200	1.414	1.383	1.358	1.339	1.323	1.310	1.289	1.273	1.261	1.250	1.242	1.214	1.199	1.183	1.168	1.157
300	1.401	1.369	1.344	1.325	1.308	1.295	1.273	1.256	1.243	1.233	1.224	1.194	1.178	1.160	1.144	1.130
400	1.395	1.362	1.337	1.317	1.301	1.287	1.265	1.248	1.235	1.223	1.214	1.184	1.167	1.147	1.130	1.115
500	1.391	1.358	1.333	1.313	1.296	1.282	1.260	1.243	1.229	1.218	1.209	1.178	1.160	1.140	1.122	1.106
750	1.386	1.353	1.327	1.307	1.290	1.276	1.253	1.236	1.222	1.210	1.201	1.169	1.150	1.129	1.109	1.092
1000	1.383	1.350	1.325	1.304	1.287	1.273	1.250	1.232	1.218	1.207	1.197	1.164	1.145	1.124	1.103	1.084