

df	t(.025)	X2(.975)	X2(.025)	F(.025,1)	F(.025,2)	F(.025,3)	F(.025,4)	F(.025,5)	F(.025,6)	F(.025,7)	F(.025,8)	F(.025,9)
1	12.706	0.001	5.024	647.789	799.500	864.163	899.583	921.848	937.111	948.217	956.656	963.285
2	4.303	0.051	7.378	38.506	39.000	39.165	39.248	39.298	39.331	39.355	39.373	39.387
3	3.182	0.216	9.348	17.443	16.044	15.439	15.101	14.885	14.735	14.624	14.540	14.473
4	2.776	0.484	11.143	12.218	10.649	9.979	9.605	9.364	9.197	9.074	8.980	8.905
5	2.571	0.831	12.833	10.007	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681
6	2.447	1.237	14.449	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523
7	2.365	1.690	16.013	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823
8	2.306	2.180	17.535	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357
9	2.262	2.700	19.023	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026
10	2.228	3.247	20.483	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779
11	2.201	3.816	21.920	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588
12	2.179	4.404	23.337	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436
13	2.160	5.009	24.736	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312
14	2.145	5.629	26.119	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209
15	2.131	6.262	27.488	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123
16	2.120	6.908	28.845	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049
17	2.110	7.564	30.191	6.042	4.619	4.011	3.665	3.438	3.277	3.156	3.061	2.985
18	2.101	8.231	31.526	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929
19	2.093	8.907	32.852	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880
20	2.086	9.591	34.170	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837
21	2.080	10.283	35.479	5.827	4.420	3.819	3.475	3.250	3.090	2.969	2.874	2.798
22	2.074	10.982	36.781	5.786	4.383	3.783	3.440	3.215	3.055	2.934	2.839	2.763
23	2.069	11.689	38.076	5.750	4.349	3.750	3.408	3.183	3.023	2.902	2.808	2.731
24	2.064	12.401	39.364	5.717	4.319	3.721	3.379	3.155	2.995	2.874	2.779	2.703
25	2.060	13.120	40.646	5.686	4.291	3.694	3.353	3.129	2.969	2.848	2.753	2.677
26	2.056	13.844	41.923	5.659	4.265	3.670	3.329	3.105	2.945	2.824	2.729	2.653
27	2.052	14.573	43.195	5.633	4.242	3.647	3.307	3.083	2.923	2.802	2.707	2.631
28	2.048	15.308	44.461	5.610	4.221	3.626	3.286	3.063	2.903	2.782	2.687	2.611
29	2.045	16.047	45.722	5.588	4.201	3.607	3.267	3.044	2.884	2.763	2.669	2.592
30	2.042	16.791	46.979	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575
40	2.021	24.433	59.342	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452
50	2.009	32.357	71.420	5.340	3.975	3.390	3.054	2.833	2.674	2.553	2.458	2.381
60	2.000	40.482	83.298	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334
70	1.994	48.758	95.023	5.247	3.890	3.309	2.975	2.754	2.595	2.474	2.379	2.302
80	1.990	57.153	106.629	5.218	3.864	3.284	2.950	2.730	2.571	2.450	2.355	2.277
90	1.987	65.647	118.136	5.196	3.844	3.265	2.932	2.711	2.552	2.432	2.336	2.259
100	1.984	74.222	129.561	5.179	3.828	3.250	2.917	2.696	2.537	2.417	2.321	2.244

- Upper Tail Probabilities in parentheses
- F-distributions: Numerator degrees of freedom across top of page in parentheses, Denominator degrees of freedom down the side of the page.

Critical Z-values

a	0.2	0.15	0.1	0.05	0.025	0.01	0.005
z_a	0.842	1.036	1.282	1.645	1.960	2.326	2.576