

t Distribution Table

Degrees of Freedom	Area (or Probability) in Upper Tail							
	0.2	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
1	1.376	3.078	6.314	12.706	31.821	63.657	318.309	636.619
2	1.061	1.886	2.920	4.303	6.965	9.925	22.327	31.599
3	0.978	1.638	2.353	3.182	4.541	5.841	10.215	12.924
4	0.941	1.533	2.132	2.776	3.747	4.604	7.173	8.610
5	0.920	1.476	2.015	2.571	3.365	4.032	5.893	6.869
6	0.906	1.440	1.943	2.447	3.143	3.707	5.208	5.959
7	0.896	1.415	1.895	2.365	2.998	3.499	4.785	5.408
8	0.889	1.397	1.860	2.306	2.896	3.355	4.501	5.041
9	0.883	1.383	1.833	2.262	2.821	3.250	4.297	4.781
10	0.879	1.372	1.812	2.228	2.764	3.169	4.144	4.587
11	0.876	1.363	1.796	2.201	2.718	3.106	4.025	4.437
12	0.873	1.356	1.782	2.179	2.681	3.055	3.930	4.318
13	0.870	1.350	1.771	2.160	2.650	3.012	3.852	4.221
14	0.868	1.345	1.761	2.145	2.624	2.977	3.787	4.140
15	0.866	1.341	1.753	2.131	2.602	2.947	3.733	4.073
16	0.865	1.337	1.746	2.120	2.583	2.921	3.686	4.015
17	0.863	1.333	1.740	2.110	2.567	2.898	3.646	3.965
18	0.862	1.330	1.734	2.101	2.552	2.878	3.610	3.922
19	0.861	1.328	1.729	2.093	2.539	2.861	3.579	3.883
20	0.860	1.325	1.725	2.086	2.528	2.845	3.552	3.850
21	0.859	1.323	1.721	2.080	2.518	2.831	3.527	3.819
22	0.858	1.321	1.717	2.074	2.508	2.819	3.505	3.792
23	0.858	1.319	1.714	2.069	2.500	2.807	3.485	3.768
24	0.857	1.318	1.711	2.064	2.492	2.797	3.467	3.745
25	0.856	1.316	1.708	2.060	2.485	2.787	3.450	3.725
26	0.856	1.315	1.706	2.056	2.479	2.779	3.435	3.707
27	0.855	1.314	1.703	2.052	2.473	2.771	3.421	3.690
28	0.855	1.313	1.701	2.048	2.467	2.763	3.408	3.674
29	0.854	1.311	1.699	2.045	2.462	2.756	3.396	3.659
30	0.854	1.310	1.697	2.042	2.457	2.750	3.385	3.646
31	0.853	1.309	1.696	2.040	2.453	2.744	3.375	3.633
32	0.853	1.309	1.694	2.037	2.449	2.738	3.365	3.622
33	0.853	1.308	1.692	2.035	2.445	2.733	3.356	3.611
34	0.852	1.307	1.691	2.032	2.441	2.728	3.348	3.601
35	0.852	1.306	1.690	2.030	2.438	2.724	3.340	3.591
36	0.852	1.306	1.688	2.028	2.434	2.719	3.333	3.582
37	0.851	1.305	1.687	2.026	2.431	2.715	3.326	3.574
38	0.851	1.304	1.686	2.024	2.429	2.712	3.319	3.566
39	0.851	1.304	1.685	2.023	2.426	2.708	3.313	3.558
40	0.851	1.303	1.684	2.021	2.423	2.704	3.307	3.551
41	0.850	1.303	1.683	2.020	2.421	2.701	3.301	3.544
42	0.850	1.302	1.682	2.018	2.418	2.698	3.296	3.538
43	0.850	1.302	1.681	2.017	2.416	2.695	3.291	3.532
44	0.850	1.301	1.680	2.015	2.414	2.692	3.286	3.526
45	0.850	1.301	1.679	2.014	2.412	2.690	3.281	3.520
46	0.850	1.300	1.679	2.013	2.410	2.687	3.277	3.515
47	0.849	1.300	1.678	2.012	2.408	2.685	3.273	3.510
48	0.849	1.299	1.677	2.011	2.407	2.682	3.269	3.505

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Degrees of Freedom	Area (or Probability) in Upper Tail							
	0.2	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
49	0.849	1.299	1.677	2.010	2.405	2.680	3.265	3.500
50	0.849	1.299	1.676	2.009	2.403	2.678	3.261	3.496
51	0.849	1.298	1.675	2.008	2.402	2.676	3.258	3.492
52	0.849	1.298	1.675	2.007	2.400	2.674	3.255	3.488
53	0.848	1.298	1.674	2.006	2.399	2.672	3.251	3.484
54	0.848	1.297	1.674	2.005	2.397	2.670	3.248	3.480
55	0.848	1.297	1.673	2.004	2.396	2.668	3.245	3.476
56	0.848	1.297	1.673	2.003	2.395	2.667	3.242	3.473
57	0.848	1.297	1.672	2.002	2.394	2.665	3.239	3.470
58	0.848	1.296	1.672	2.002	2.392	2.663	3.237	3.466
59	0.848	1.296	1.671	2.001	2.391	2.662	3.234	3.463
60	0.848	1.296	1.671	2.000	2.390	2.660	3.232	3.460
61	0.848	1.296	1.670	2.000	2.389	2.659	3.229	3.457
62	0.847	1.295	1.670	1.999	2.388	2.657	3.227	3.454
63	0.847	1.295	1.669	1.998	2.387	2.656	3.225	3.452
64	0.847	1.295	1.669	1.998	2.386	2.655	3.223	3.449
65	0.847	1.295	1.669	1.997	2.385	2.654	3.220	3.447
66	0.847	1.295	1.668	1.997	2.384	2.652	3.218	3.444
67	0.847	1.294	1.668	1.996	2.383	2.651	3.216	3.442
68	0.847	1.294	1.668	1.995	2.382	2.650	3.214	3.439
69	0.847	1.294	1.667	1.995	2.382	2.649	3.213	3.437
70	0.847	1.294	1.667	1.994	2.381	2.648	3.211	3.435
71	0.847	1.294	1.667	1.994	2.380	2.647	3.209	3.433
72	0.847	1.293	1.666	1.993	2.379	2.646	3.207	3.431
73	0.847	1.293	1.666	1.993	2.379	2.645	3.206	3.429
74	0.847	1.293	1.666	1.993	2.378	2.644	3.204	3.427
75	0.846	1.293	1.665	1.992	2.377	2.643	3.202	3.425
76	0.846	1.293	1.665	1.992	2.376	2.642	3.201	3.423
77	0.846	1.293	1.665	1.991	2.376	2.641	3.199	3.421
78	0.846	1.292	1.665	1.991	2.375	2.640	3.198	3.420
79	0.846	1.292	1.664	1.990	2.374	2.640	3.197	3.418
80	0.846	1.292	1.664	1.990	2.374	2.639	3.195	3.416
81	0.846	1.292	1.664	1.990	2.373	2.638	3.194	3.415
82	0.846	1.292	1.664	1.989	2.373	2.637	3.193	3.413
83	0.846	1.292	1.663	1.989	2.372	2.636	3.191	3.412
84	0.846	1.292	1.663	1.989	2.372	2.636	3.190	3.410
85	0.846	1.292	1.663	1.988	2.371	2.635	3.189	3.409
86	0.846	1.291	1.663	1.988	2.370	2.634	3.188	3.407
87	0.846	1.291	1.663	1.988	2.370	2.634	3.187	3.406
88	0.846	1.291	1.662	1.987	2.369	2.633	3.185	3.405
89	0.846	1.291	1.662	1.987	2.369	2.632	3.184	3.403
90	0.846	1.291	1.662	1.987	2.368	2.632	3.183	3.402
91	0.846	1.291	1.662	1.986	2.368	2.631	3.182	3.401
92	0.846	1.291	1.662	1.986	2.368	2.630	3.181	3.399
93	0.846	1.291	1.661	1.986	2.367	2.630	3.180	3.398
94	0.845	1.291	1.661	1.986	2.367	2.629	3.179	3.397
95	0.845	1.291	1.661	1.985	2.366	2.629	3.178	3.396
96	0.845	1.290	1.661	1.985	2.366	2.628	3.177	3.395

t Distribution Table

Degrees of Freedom	Area (or Probability) in Upper Tail							
	0.2	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
97	0.845	1.290	1.661	1.985	2.365	2.627	3.176	3.394
98	0.845	1.290	1.661	1.984	2.365	2.627	3.175	3.393
99	0.845	1.290	1.660	1.984	2.365	2.626	3.175	3.392
100	0.845	1.290	1.660	1.984	2.364	2.626	3.174	3.390
101	0.845	1.290	1.660	1.984	2.364	2.625	3.173	3.389
102	0.845	1.290	1.660	1.983	2.363	2.625	3.172	3.388
103	0.845	1.290	1.660	1.983	2.363	2.624	3.171	3.388
104	0.845	1.290	1.660	1.983	2.363	2.624	3.170	3.387
105	0.845	1.290	1.659	1.983	2.362	2.623	3.170	3.386
106	0.845	1.290	1.659	1.983	2.362	2.623	3.169	3.385
107	0.845	1.290	1.659	1.982	2.362	2.623	3.168	3.384
108	0.845	1.289	1.659	1.982	2.361	2.622	3.167	3.383
109	0.845	1.289	1.659	1.982	2.361	2.622	3.167	3.382
110	0.845	1.289	1.659	1.982	2.361	2.621	3.166	3.381
111	0.845	1.289	1.659	1.982	2.360	2.621	3.165	3.380
112	0.845	1.289	1.659	1.981	2.360	2.620	3.165	3.380
113	0.845	1.289	1.658	1.981	2.360	2.620	3.164	3.379
114	0.845	1.289	1.658	1.981	2.360	2.620	3.163	3.378
115	0.845	1.289	1.658	1.981	2.359	2.619	3.163	3.377
116	0.845	1.289	1.658	1.981	2.359	2.619	3.162	3.376
117	0.845	1.289	1.658	1.980	2.359	2.619	3.161	3.376
118	0.845	1.289	1.658	1.980	2.358	2.618	3.161	3.375
119	0.845	1.289	1.658	1.980	2.358	2.618	3.160	3.374
120	0.845	1.289	1.658	1.980	2.358	2.617	3.160	3.373
121	0.845	1.289	1.658	1.980	2.358	2.617	3.159	3.373
122	0.845	1.289	1.657	1.980	2.357	2.617	3.158	3.372
123	0.845	1.288	1.657	1.979	2.357	2.616	3.158	3.371
124	0.845	1.288	1.657	1.979	2.357	2.616	3.157	3.371
125	0.845	1.288	1.657	1.979	2.357	2.616	3.157	3.370
126	0.844	1.288	1.657	1.979	2.356	2.615	3.156	3.369
127	0.844	1.288	1.657	1.979	2.356	2.615	3.156	3.369
128	0.844	1.288	1.657	1.979	2.356	2.615	3.155	3.368
129	0.844	1.288	1.657	1.979	2.356	2.614	3.155	3.368
130	0.844	1.288	1.657	1.978	2.355	2.614	3.154	3.367
131	0.844	1.288	1.657	1.978	2.355	2.614	3.154	3.366
132	0.844	1.288	1.656	1.978	2.355	2.614	3.153	3.366
133	0.844	1.288	1.656	1.978	2.355	2.613	3.153	3.365
134	0.844	1.288	1.656	1.978	2.354	2.613	3.152	3.365
135	0.844	1.288	1.656	1.978	2.354	2.613	3.152	3.364
136	0.844	1.288	1.656	1.978	2.354	2.612	3.151	3.364
137	0.844	1.288	1.656	1.977	2.354	2.612	3.151	3.363
138	0.844	1.288	1.656	1.977	2.354	2.612	3.150	3.362
139	0.844	1.288	1.656	1.977	2.353	2.612	3.150	3.362
140	0.844	1.288	1.656	1.977	2.353	2.611	3.149	3.361
141	0.844	1.288	1.656	1.977	2.353	2.611	3.149	3.361
142	0.844	1.288	1.656	1.977	2.353	2.611	3.149	3.360
143	0.844	1.287	1.656	1.977	2.353	2.611	3.148	3.360
144	0.844	1.287	1.656	1.977	2.353	2.610	3.148	3.359

t Distribution Table

Degrees of Freedom	Area (or Probability) in Upper Tail							
	0.2	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
145	0.844	1.287	1.655	1.976	2.352	2.610	3.147	3.359
146	0.844	1.287	1.655	1.976	2.352	2.610	3.147	3.358
147	0.844	1.287	1.655	1.976	2.352	2.610	3.147	3.358
148	0.844	1.287	1.655	1.976	2.352	2.609	3.146	3.357
149	0.844	1.287	1.655	1.976	2.352	2.609	3.146	3.357
150	0.844	1.287	1.655	1.976	2.351	2.609	3.145	3.357
151	0.844	1.287	1.655	1.976	2.351	2.609	3.145	3.356
152	0.844	1.287	1.655	1.976	2.351	2.609	3.145	3.356
153	0.844	1.287	1.655	1.976	2.351	2.608	3.144	3.355
154	0.844	1.287	1.655	1.975	2.351	2.608	3.144	3.355
155	0.844	1.287	1.655	1.975	2.351	2.608	3.144	3.354
156	0.844	1.287	1.655	1.975	2.350	2.608	3.143	3.354
157	0.844	1.287	1.655	1.975	2.350	2.608	3.143	3.354
158	0.844	1.287	1.655	1.975	2.350	2.607	3.143	3.353
159	0.844	1.287	1.654	1.975	2.350	2.607	3.142	3.353
160	0.844	1.287	1.654	1.975	2.350	2.607	3.142	3.352
161	0.844	1.287	1.654	1.975	2.350	2.607	3.142	3.352
162	0.844	1.287	1.654	1.975	2.350	2.607	3.141	3.352
163	0.844	1.287	1.654	1.975	2.349	2.606	3.141	3.351
164	0.844	1.287	1.654	1.975	2.349	2.606	3.141	3.351
165	0.844	1.287	1.654	1.974	2.349	2.606	3.140	3.350
166	0.844	1.287	1.654	1.974	2.349	2.606	3.140	3.350
167	0.844	1.287	1.654	1.974	2.349	2.606	3.140	3.350
168	0.844	1.287	1.654	1.974	2.349	2.605	3.139	3.349
169	0.844	1.287	1.654	1.974	2.349	2.605	3.139	3.349
170	0.844	1.287	1.654	1.974	2.348	2.605	3.139	3.349
171	0.844	1.287	1.654	1.974	2.348	2.605	3.139	3.348
172	0.844	1.286	1.654	1.974	2.348	2.605	3.138	3.348
173	0.844	1.286	1.654	1.974	2.348	2.605	3.138	3.348
174	0.844	1.286	1.654	1.974	2.348	2.604	3.138	3.347
175	0.844	1.286	1.654	1.974	2.348	2.604	3.137	3.347
176	0.844	1.286	1.654	1.974	2.348	2.604	3.137	3.347
177	0.844	1.286	1.654	1.973	2.348	2.604	3.137	3.346
178	0.844	1.286	1.653	1.973	2.347	2.604	3.137	3.346
179	0.844	1.286	1.653	1.973	2.347	2.604	3.136	3.346
180	0.844	1.286	1.653	1.973	2.347	2.603	3.136	3.345
181	0.844	1.286	1.653	1.973	2.347	2.603	3.136	3.345
182	0.844	1.286	1.653	1.973	2.347	2.603	3.136	3.345
183	0.844	1.286	1.653	1.973	2.347	2.603	3.135	3.344
184	0.844	1.286	1.653	1.973	2.347	2.603	3.135	3.344
185	0.844	1.286	1.653	1.973	2.347	2.603	3.135	3.344
186	0.844	1.286	1.653	1.973	2.347	2.603	3.135	3.344
187	0.844	1.286	1.653	1.973	2.346	2.602	3.134	3.343
188	0.844	1.286	1.653	1.973	2.346	2.602	3.134	3.343
189	0.844	1.286	1.653	1.973	2.346	2.602	3.134	3.343
190	0.844	1.286	1.653	1.973	2.346	2.602	3.134	3.342
∞	0.842	1.282	1.645	1.960	2.326	2.576	3.090	3.291