

## 13.2: A | Statistical Table- Student t Distribution

### Student's $t$ Distribution



Figure A3 Upper critical values of Student's  $t$  Distribution with  $v$  Degrees of Freedom

For selected probabilities,  $a$ , the table shows the values  $t_{v,a}$  such that  $P(t_v > t_{v,a}) = a$ , where  $t_v$  is a Student's  $t$  random variable with  $v$  degrees of freedom. For example, the probability is .10 that a Student's  $t$  random variable with 10 degrees of freedom exceeds 1.372.

$v$	0.10	0.05	0.025	0.01	0.005	0.001
1	3.078	6.314	12.706	31.821	63.657	318.313
2	1.886	2.920	4.303	6.965	9.925	22.327
3	1.638	2.353	3.182	4.541	5.841	10.215
4	1.533	2.132	2.776	3.747	4.604	7.173
5	1.476	2.015	2.571	3.365	4.032	5.893
6	1.440	1.943	2.447	3.143	3.707	5.208
7	1.415	1.895	2.365	2.998	3.499	4.782
8	1.397	1.860	2.306	2.896	3.355	4.499
9	1.383	1.833	2.262	2.821	3.250	4.296
10	1.372	1.812	2.228	2.764	3.169	4.143
11	1.363	1.796	2.201	2.718	3.106	4.024
12	1.356	1.782	2.179	2.681	3.055	3.929
13	1.350	1.771	2.160	2.650	3.012	3.852
14	1.345	1.761	2.145	2.624	2.977	3.787
15	1.341	1.753	2.131	2.602	2.947	3.733
16	1.337	1.746	2.120	2.583	2.921	3.686
17	1.333	1.740	2.110	2.567	2.898	3.646
18	1.330	1.734	2.101	2.552	2.878	3.610
19	1.328	1.729	2.093	2.539	2.861	3.579
20	1.325	1.725	2.086	2.528	2.845	3.552
21	1.323	1.721	2.080	2.518	2.831	3.527
22	1.321	1.717	2.074	2.508	2.819	3.505
23	1.319	1.714	2.069	2.500	2.807	3.485
24	1.318	1.711	2.064	2.492	2.797	3.467
25	1.316	1.708	2.060	2.485	2.787	3.450
26	1.315	1.706*	2.056	2.479	2.779	3.435
27	1.314	1.703	2.052	2.473	2.771	3.421
28	1.313	1.701	2.048	2.467	2.763	3.408

$v$	0.10	0.05	0.025	0.01	0.005	0.001
<b>29</b>	1.311	1.699	2.045	2.462	2.756	3.396
<b>30</b>	1.310	1.697	2.042	2.457	2.750	3.385
<b>40</b>	1.303	1.684	2.021	2.423	2.704	3.307
<b>60</b>	1.296	1.671	2.000	2.390	2.660	3.232
<b>100</b>	1.290	1.660	1.984	2.364	2.626	3.174
$\infty$	1.282	1.645	1.960	2.326	2.576	3.090

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