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Edward Volchok

CUNY Queensborough Community College

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Student t Distribution

Confidence Level (CL)							Confidence Level (CL)						
80% 90% 95% 98% 99% 99.9%							80% 90% 95% 98% 99% 99.9%						
α — One-Tailed Test							α — One-Tailed Test						
0.10 0.05 0.025 0.01 0.005 0.0005							0.10 0.05 0.025 0.01 0.005 0.0005						
α — Two-Tailed Test							α — Two-Tailed Test						
df	0.20	0.10	0.05	0.02	0.01	0.001	df	0.20	0.10	0.05	0.02	0.01	0.001
1	3.078	6.314	12.706	31.821	63.657	636.619	36	1.306	1.688	2.028	2.434	2.719	3.582
2	1.886	2.920	4.303	6.965	9.925	31.599	37	1.305	1.687	2.026	2.431	2.715	3.574
3	1.638	2.353	3.182	4.541	5.841	12.924	38	1.304	1.686	2.024	2.429	2.712	3.566
4	1.533	2.132	2.776	3.747	4.604	8.610	39	1.304	1.685	2.023	2.426	2.708	3.558
5	1.476	2.015	2.571	3.365	4.032	6.869	40	1.303	1.684	2.021	2.423	2.704	3.551
6	1.440	1.943	2.447	3.143	3.707	5.959	41	1.303	1.683	2.020	2.421	2.701	3.544
7	1.415	1.895	2.365	2.998	3.499	5.408	42	1.302	1.682	2.018	2.418	2.698	3.538
8	1.397	1.860	2.306	2.896	3.355	5.041	43	1.302	1.681	2.017	2.416	2.695	3.532
9	1.383	1.833	2.262	2.821	3.250	4.781	44	1.301	1.680	2.015	2.414	2.692	3.526
10	1.372	1.812	2.228	2.764	3.169	4.587	45	1.301	1.679	2.014	2.412	2.690	3.520
11	1.363	1.796	2.201	2.718	3.106	4.437	46	1.300	1.679	2.013	2.410	2.687	3.515
12	1.356	1.782	2.179	2.681	3.055	4.318	47	1.300	1.678	2.012	2.408	2.685	3.510
13	1.350	1.771	2.160	2.650	3.012	4.221	48	1.299	1.677	2.011	2.407	2.682	3.505
14	1.345	1.761	2.145	2.624	2.977	4.140	49	1.299	1.677	2.010	2.405	2.680	3.500
15	1.341	1.753	2.131	2.602	2.947	4.073	50	1.299	1.676	2.009	2.403	2.678	3.496
16	1.337	1.746	2.120	2.583	2.921	4.015	51	1.298	1.675	2.008	2.402	2.676	3.492
17	1.333	1.740	2.110	2.567	2.898	3.965	52	1.298	1.675	2.007	2.400	2.674	3.488
18	1.330	1.734	2.101	2.552	2.878	3.922	53	1.298	1.674	2.006	2.399	2.672	3.484
19	1.328	1.729	2.093	2.539	2.861	3.883	54	1.297	1.674	2.005	2.397	2.670	3.480
20	1.325	1.725	2.086	2.528	2.845	3.850	55	1.297	1.673	2.004	2.396	2.668	3.476
21	1.323	1.721	2.080	2.518	2.831	3.819	56	1.297	1.673	2.003	2.395	2.667	3.473
22	1.321	1.717	2.074	2.508	2.819	3.792	57	1.297	1.672	2.002	2.394	2.665	3.470
23	1.319	1.714	2.069	2.500	2.807	3.768	58	1.296	1.672	2.002	2.392	2.663	3.466
24	1.318	1.711	2.064	2.492	2.797	3.745	59	1.296	1.671	2.001	2.391	2.662	3.463
25	1.316	1.708	2.060	2.485	2.787	3.725	60	1.296	1.671	2.000	2.390	2.660	3.460
26	1.315	1.706	2.056	2.479	2.779	3.707	61	1.296	1.670	2.000	2.389	2.659	3.457
27	1.314	1.703	2.052	2.473	2.771	3.690	62	1.295	1.670	1.999	2.388	2.657	3.454
28	1.313	1.701	2.048	2.467	2.763	3.674	63	1.295	1.669	1.998	2.387	2.656	3.452
29	1.311	1.699	2.045	2.462	2.756	3.659	64	1.295	1.669	1.998	2.386	2.655	3.449
30	1.310	1.697	2.042	2.457	2.750	3.646	65	1.295	1.669	1.997	2.385	2.654	3.447
31	1.309	1.696	2.040	2.453	2.744	3.633	66	1.295	1.668	1.997	2.384	2.652	3.444
32	1.309	1.694	2.037	2.449	2.738	3.622	67	1.294	1.668	1.996	2.383	2.651	3.442
33	1.308	1.692	2.035	2.445	2.733	3.611	68	1.294	1.668	1.995	2.382	2.650	3.439
34	1.307	1.691	2.032	2.441	2.728	3.601	69	1.294	1.667	1.995	2.382	2.649	3.437
35	1.306	1.690	2.030	2.438	2.724	3.591	70	1.294	1.667	1.994	2.381	2.648	3.435

Student t Distribution

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df	0.20	0.10	0.05	0.02	0.01	0.001	df	0.20	0.10	0.05	0.02	0.01	0.001
71	1.294	1.667	1.994	2.380	2.647	3.433	105	1.290	1.659	1.983	2.362	2.623	3.386
72	1.293	1.666	1.993	2.379	2.646	3.431	106	1.290	1.659	1.983	2.362	2.623	3.385
73	1.293	1.666	1.993	2.379	2.645	3.429	107	1.290	1.659	1.982	2.362	2.623	3.384
74	1.293	1.666	1.993	2.378	2.644	3.427	108	1.289	1.659	1.982	2.361	2.622	3.383
75	1.293	1.665	1.992	2.377	2.643	3.425	109	1.289	1.659	1.982	2.361	2.622	3.382
76	1.293	1.665	1.992	2.376	2.642	3.423	110	1.289	1.659	1.982	2.361	2.621	3.381
77	1.293	1.665	1.991	2.376	2.641	3.421	111	1.289	1.659	1.982	2.360	2.621	3.380
78	1.292	1.665	1.991	2.375	2.640	3.420	112	1.289	1.659	1.981	2.360	2.620	3.380
79	1.292	1.664	1.990	2.374	2.640	3.418	113	1.289	1.658	1.981	2.360	2.620	3.379
80	1.292	1.664	1.990	2.374	2.639	3.416	114	1.289	1.658	1.981	2.360	2.620	3.378
81	1.292	1.664	1.990	2.373	2.638	3.415	115	1.289	1.658	1.981	2.359	2.619	3.377
82	1.292	1.664	1.989	2.373	2.637	3.413	116	1.289	1.658	1.981	2.359	2.619	3.376
83	1.292	1.663	1.989	2.372	2.636	3.412	117	1.289	1.658	1.980	2.359	2.619	3.376
84	1.292	1.663	1.989	2.372	2.636	3.410	118	1.289	1.658	1.980	2.358	2.618	3.375
85	1.292	1.663	1.988	2.371	2.635	3.409	119	1.289	1.658	1.980	2.358	2.618	3.374
86	1.291	1.663	1.988	2.370	2.634	3.407	120	1.289	1.658	1.980	2.358	2.617	3.373
87	1.291	1.663	1.988	2.370	2.634	3.406	130	1.288	1.657	1.978	2.355	2.614	3.367
88	1.291	1.662	1.987	2.369	2.633	3.405	140	1.288	1.656	1.977	2.353	2.611	3.361
89	1.291	1.662	1.987	2.369	2.632	3.403	150	1.287	1.655	1.976	2.351	2.609	3.357
90	1.291	1.662	1.987	2.368	2.632	3.402	160	1.287	1.654	1.975	2.350	2.607	3.352
90	1.291	1.662	1.987	2.368	2.632	3.402	170	1.287	1.654	1.974	2.348	2.605	3.349
91	1.291	1.662	1.986	2.368	2.631	3.401	180	1.286	1.653	1.973	2.347	2.603	3.345
92	1.291	1.662	1.986	2.368	2.630	3.399	190	1.286	1.653	1.973	2.346	2.602	3.342
93	1.291	1.661	1.986	2.367	2.630	3.398	200	1.286	1.653	1.972	2.345	2.601	3.340
94	1.291	1.661	1.986	2.367	2.629	3.397	210	1.286	1.652	1.971	2.344	2.599	3.337
95	1.291	1.661	1.985	2.366	2.629	3.396	220	1.285	1.652	1.971	2.343	2.598	3.335
96	1.290	1.661	1.985	2.366	2.628	3.395	230	1.285	1.652	1.970	2.343	2.597	3.333
97	1.290	1.661	1.985	2.365	2.627	3.394	240	1.285	1.651	1.970	2.342	2.596	3.332
98	1.290	1.661	1.984	2.365	2.627	3.393	250	1.285	1.651	1.969	2.341	2.596	3.330
99	1.290	1.660	1.984	2.365	2.626	3.392	260	1.285	1.651	1.969	2.341	2.595	3.328
100	1.290	1.660	1.984	2.364	2.626	3.390	270	1.285	1.651	1.969	2.340	2.594	3.327
101	1.290	1.660	1.984	2.364	2.625	3.389	280	1.285	1.650	1.968	2.340	2.594	3.326
102	1.290	1.660	1.983	2.363	2.625	3.388	290	1.284	1.650	1.968	2.339	2.593	3.324
103	1.290	1.660	1.983	2.363	2.624	3.388	300	1.284	1.650	1.968	2.339	2.592	3.323
104	1.290	1.660	1.983	2.363	2.624	3.387	350	1.284	1.649	1.967	2.337	2.590	3.319