

TABLE 1

*Table of Critical Values for T (One-sided Test) When Standard Deviation  
is Calculated from the Same Sample*

Number of Observations $n$	5% Significance Level	2.5% Significance Level	1% Significance Level
3	1.15	1.15	1.15
4	1.46	1.48	1.49
5	1.67	1.71	1.75
6	1.82	1.89	1.94
7	1.94	2.02	2.10
8	2.03	2.13	2.22
9	2.11	2.21	2.32
10	2.18	2.29	2.41
11	2.23	2.36	2.48
12	2.29	2.41	2.55
13	2.33	2.46	2.61
14	2.37	2.51	2.66
15	2.41	2.55	2.71
16	2.44	2.59	2.75
17	2.47	2.62	2.79
18	2.50	2.65	2.82
19	2.53	2.68	2.85
20	2.56	2.71	2.88
21	2.58	2.73	2.91
22	2.60	2.76	2.94
23	2.62	2.78	2.96
24	2.64	2.80	2.99
25	2.66	2.82	3.01
30	2.75	2.91	
35	2.82	2.98	
40	2.87	3.04	
45	2.92	3.09	
50	2.96	3.13	
60	3.03	3.20	
70	3.09	3.26	
80	3.14	3.31	
90	3.18	3.35	
100	3.21	3.38	

$$T_n = \frac{x_n - \bar{x}}{s} \quad s = \left\{ \frac{\sum (x_i - \bar{x})^2}{n-1} \right\}^{\frac{1}{2}} = \left\{ \frac{n \sum x_i^2 - (\sum x_i)^2}{n(n-1)} \right\}^{\frac{1}{2}}$$

$$T_1 = \frac{\bar{x} - x_1}{s} \quad x_1 \leq x_2 \leq \cdots \leq x_n$$