

Solutions for GeoWorkSheet No. 103

Solutions sheet No. 103				Reciprocal Tangent Ratio - Find a Side 1 (degrees & minutes)				
Working using $\tan A = \frac{O}{A}$ or $A = \frac{O}{\tan A}$								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	1 Dec. Place	Solution
1	25	<i>a</i>		43°12'	= 25/tan43°12'	26.622296	26.6	<i>a</i> = 26.6
2	60	<i>b</i>		67°25'	= 60/tan67°25'	24.955114	25	<i>b</i> = 25
3	90	<i>c</i>		64°30'	= 90/tan64°30'	42.927798	42.9	<i>c</i> = 42.9
4	75	<i>d</i>		40°50'	= 75/tan40°50'	86.78621	86.8	<i>d</i> = 86.8
5	200	<i>e</i>		32°40'	= 200/tan32°40'	311.93105	311.9	<i>e</i> = 311.9
6	160	<i>f</i>		35°48'	= 160/tan35°48'	221.84547	221.8	<i>f</i> = 221.8
7	325	<i>g</i>		46°24'	= 325/tan46°24'	309.49332	309.5	<i>g</i> = 309.5
8	800	<i>h</i>		44°38'	= 800/tan44°38'	810.30536	810.3	<i>h</i> = 810.3
9	300	<i>i</i>		43°52'	= 300/tan43°52'	312.10935	312.1	<i>i</i> = 312.1
10	60	<i>j</i>		33°48'	= 60/tan33°48'	89.62693	89.6	<i>j</i> = 89.6
11	450	<i>k</i>		22°8'	= 450/tan22°8'	1106.3694	1106.4	<i>k</i> = 1106.4
12	220	<i>l</i>		64°16'	= 220/tan64°16'	106.03653	106	<i>l</i> = 106
13	250	<i>m</i>		23°49'	= 250/tan23°49'	566.37961	566.4	<i>m</i> = 566.4
14	1200	<i>n</i>		27°22'	= 1200/tan27°22'	2318.3348	2318.3	<i>n</i> = 2318.3
15	300	<i>p</i>		46°37'	= 300/tan46°37'	283.53064	283.5	<i>p</i> = 283.5
16	105	<i>q</i>		26°43'	= 105/tan26°43'	208.61806	208.6	<i>q</i> = 208.6
17	4.8	<i>r</i>		51°15'	= 4.8/tan51°15'	3.8524073	3.9	<i>r</i> = 3.9
18	300	<i>s</i>		36°47'	= 300/tan36°47'	401.26157	401.3	<i>s</i> = 401.3
19	675	<i>t</i>		60°51'	= 675/tan60°51'	376.47209	376.5	<i>t</i> = 376.5
20	5000	<i>u</i>		48°31'	= 5000/tan48°31'	4421.0341	4421	<i>u</i> = 4421