

Solutions for GeoWorkSheet No. 100

Solutions sheet No. 100				Reciprocal Tangent Ratio - Find a Side 1				
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	100	<i>a</i>		66°	$a = 100/\tan 66^\circ$	44.5	65.3	$a = 44.5$
2	60	<i>b</i>		63°	$b = 60/\tan 63^\circ$	30.6	20.5	$b = 30.6$
3	25	<i>c</i>		40°	$c = 25/\tan 40^\circ$	29.8	73.2	$c = 29.8$
4	15	<i>d</i>		42°	$d = 15/\tan 42^\circ$	16.7	7.4	$d = 16.7$
5	80	<i>e</i>		36°	$e = 80/\tan 36^\circ$	110.1	24	$e = 110.1$
6	13.5	<i>f</i>		32°	$f = 13.5/\tan 32^\circ$	21.6	24.2	$f = 21.6$
7	32	<i>g</i>		37°	$g = 32/\tan 37^\circ$	42.5	31.7	$g = 42.5$
8	65	<i>h</i>		42°	$h = 65/\tan 42^\circ$	72.2	95.8	$h = 72.2$
9	75	<i>i</i>		40°	$i = 75/\tan 40^\circ$	89.4	11.9	$i = 89.4$
10	9	<i>j</i>		26°	$j = 9/\tan 26^\circ$	18.5	16.6	$j = 18.5$
11	40	<i>k</i>		25°	$k = 40/\tan 25^\circ$	85.8	362.8	$k = 85.8$
12	32.5	<i>l</i>		44°	$l = 32.5/\tan 44^\circ$	33.7	42.6	$l = 33.7$
13	17.5	<i>m</i>		20°	$m = 17.5/\tan 20^\circ$	48.1	733.1	$m = 48.1$
14	140	<i>n</i>		29°	$n = 140/\tan 29^\circ$	252.6	158.6	$n = 252.6$
15	6.8	<i>p</i>		46°	$p = 6.8/\tan 46^\circ$	6.6	27.6	$p = 6.6$
16	220	<i>q</i>		58°	$q = 220/\tan 58^\circ$	137.5	50.2	$q = 137.5$
17	4.8	<i>r</i>		53°	$r = 4.8/\tan 53^\circ$	3.6	479.4	$r = 3.6$
18	325	<i>s</i>		47°	$s = 325/\tan 47^\circ$	303.1	4.6	$s = 303.1$
19	6.75	<i>t</i>		59°	$t = 6.75/\tan 59^\circ$	4.1	67.9	$t = 4.1$
20	61	<i>u</i>		34°	$u = 61/\tan 34^\circ$	90.4	1.7	$u = 90.4$