

Solutions for GeoWorkSheet No. 89

Solutions sheet No. 89				Mixed Trig Ratio - Find an Side 2					
Working using $\sin A = \frac{O}{H}$ or $\cos A = \frac{A}{H}$ or $\tan A = \frac{O}{A}$									
No.	Opp	Adj	Hyp	A	Side	Equation	Calculator	Rounded	Solution
1			30	47°	<i>a</i>	$a = 30 \times \cos 47^\circ$	20.459951	20.5	$a = 20.5$
2		140		37°	<i>b</i>	$b = 140 \times \tan 37^\circ$	105.49757	105.5	$b = 105.5$
3			12	44°	<i>c</i>	$c = 12 \times \cos 44^\circ$	8.6320776	8.6	$c = 8.6$
4			35	63°	<i>d</i>	$d = 35 \times \sin 63^\circ$	31.185228	31.2	$d = 31.2$
5			10	33°	<i>e</i>	$e = 10 \times \sin 33^\circ$	5.4463904	5.4	$e = 5.4$
6		85		57°	<i>f</i>	$f = 85 \times \tan 57^\circ$	130.88852	130.9	$f = 130.9$
7			30	24°	<i>g</i>	$g = 30 \times \cos 24^\circ$	27.406364	27.4	$g = 27.4$
8			40	41°	<i>h</i>	$h = 40 \times \sin 41^\circ$	26.242361	26.2	$h = 26.2$
9		116		36°	<i>i</i>	$i = 116 \times \tan 36^\circ$	84.278933	84.3	$i = 84.3$
10			18	56°	<i>j</i>	$j = 18 \times \sin 56^\circ$	14.922676	14.9	$j = 14.9$
11			20	48°	<i>k</i>	$k = 20 \times \cos 48^\circ$	13.382612	13.4	$k = 13.4$
12			175	42°	<i>l</i>	$l = 175 \times \cos 42^\circ$	130.05034	130.1	$l = 130.1$
13		60		47°	<i>m</i>	$m = 60 \times \tan 47^\circ$	64.342123	64.3	$m = 64.3$
14			78	19°	<i>n</i>	$n = 78 \times \sin 19^\circ$	25.394316	25.4	$n = 25.4$
15			55	54°	<i>p</i>	$p = 55 \times \cos 54^\circ$	32.328189	32.3	$p = 32.3$
16			12.5	42°	<i>q</i>	$q = 12.5 \times \sin 42^\circ$	8.3641326	8.4	$q = 8.4$
17			2.7	56°	<i>r</i>	$r = 2.7 \times \cos 56^\circ$	1.5098208	1.5	$r = 1.5$
18			4.8	62°	<i>s</i>	$s = 4.8 \times \sin 62^\circ$	4.2381484	4.2	$s = 4.2$
19		8.8		75°	<i>t</i>	$t = 8.8 \times \tan 75^\circ$	32.842047	32.8	$t = 32.8$
20			4.75	71°	<i>u</i>	$u = 4.75 \times \sin 71^\circ$	4.4912132	4.5	$u = 4.5$