

## Solutions for GeoWorkSheet No. 88

Solutions sheet No. 88				Mixed Trig Ratio - Find an Side 1					
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			50	25°	<i>a</i>	$a = 50 \times \cos 25^\circ$	45.315389	45.3	$a = 45.3$
2			16	42°	<i>b</i>	$b = 16 \times \sin 42^\circ$	10.70609	10.7	$b = 10.7$
3		9		23°	<i>c</i>	$c = 9 \times \tan 23^\circ$	3.8202733	3.8	$c = 3.8$
4		22		31°	<i>d</i>	$d = 22 \times \tan 31^\circ$	13.218934	13.2	$d = 13.2$
5			14	49°	<i>e</i>	$e = 14 \times \sin 49^\circ$	10.565934	10.6	$e = 10.6$
6			25	37°	<i>f</i>	$f = 25 \times \cos 37^\circ$	19.965888	20	$f = 20$
7			1.8	28°	<i>g</i>	$g = 1.8 \times \sin 28^\circ$	0.8450488	0.8	$g = 0.8$
8			45	52°	<i>h</i>	$h = 45 \times \sin 52^\circ$	35.460484	35.5	$h = 35.5$
9			4.2	65°	<i>i</i>	$i = 4.2 \times \cos 65^\circ$	1.7749967	1.8	$i = 1.8$
10		6.8		48°	<i>j</i>	$j = 6.8 \times \tan 48^\circ$	7.5521651	7.6	$j = 7.6$
11		21		75°	<i>k</i>	$k = 21 \times \tan 75^\circ$	78.373067	78.4	$k = 78.4$
12			84	65°	<i>l</i>	$l = 84 \times \sin 65^\circ$	76.129854	76.1	$l = 76.1$
13			24	35°	<i>m</i>	$m = 24 \times \sin 35^\circ$	13.765834	13.8	$m = 13.8$
14		35		44°	<i>n</i>	$n = 35 \times \tan 44^\circ$	33.799107	33.8	$n = 33.8$
15			2.2	72°	<i>p</i>	$p = 2.2 \times \sin 72^\circ$	2.0923243	2.1	$p = 2.1$
16		120		37°	<i>q</i>	$q = 120 \times \tan 37^\circ$	90.426486	90.4	$q = 90.4$
17		75		41°	<i>r</i>	$r = 75 \times \tan 41^\circ$	65.196505	65.2	$r = 65.2$
18			90	80°	<i>s</i>	$s = 90 \times \sin 80^\circ$	88.632698	88.6	$s = 88.6$
19			3.2	30°	<i>t</i>	$t = 3.2 \times \cos 30^\circ$	2.7712813	2.8	$t = 2.8$
20			3.8	78°	<i>u</i>	$u = 3.8 \times \sin 78^\circ$	3.7169609	3.7	$u = 3.7$