

Solutions for GeoWorkSheet No. 99

Solutions sheet No. 99			Reciprocal Cosine Ratio - Find a Side 1					
Working using $\cos A = \frac{A}{H}$ or $H = \frac{O}{\cos A}$								
No.	Working							Solution
	Opp	Adj	Hyp	Angle	Equation	Calculator	1 Dec. Place	
1		50	a	40°	$a = 50/\cos 40^\circ$	65.270364	65.3	$a = 65.3$
2		15	b	43°	$b = 15/\cos 43^\circ$	20.509912	20.5	$b = 20.5$
3		60	c	35°	$c = 60/\cos 35^\circ$	73.246475	73.2	$c = 73.2$
4		6	d	36°	$d = 6/\cos 36^\circ$	7.4164079	7.4	$d = 7.4$
5		12	e	60°	$e = 12/\cos 60^\circ$	24	24	$e = 24$
6		16.5	f	47°	$f = 16.5/\cos 47^\circ$	24.193607	24.2	$f = 24.2$
7		25	g	38°	$g = 25/\cos 38^\circ$	31.725455	31.7	$g = 31.7$
8		90	h	20°	$h = 90/\cos 20^\circ$	95.776	95.8	$h = 95.8$
9		8.25	i	46°	$i = 8.25/\cos 46^\circ$	11.876341	11.9	$i = 11.9$
10		14.75	j	27°	$j = 14.75/\cos 27^\circ$	16.554312	16.6	$j = 16.6$
11		130	k	69°	$k = 130/\cos 69^\circ$	362.75565	362.8	$k = 362.8$
12		34	l	37°	$l = 34/\cos 37^\circ$	42.572612	42.6	$l = 42.6$
13		500	m	47°	$m = 500/\cos 47^\circ$	733.13959	733.1	$m = 733.1$
14		72	n	63°	$n = 72/\cos 63^\circ$	158.59363	158.6	$n = 158.6$
15		7.6	p	74°	$p = 7.6/\cos 74^\circ$	27.57246	27.6	$p = 27.6$
16		22	q	64°	$q = 22/\cos 64^\circ$	50.185785	50.2	$q = 50.2$
17		75	r	81°	$r = 75/\cos 81^\circ$	479.43399	479.4	$r = 479.4$
18		3.1	s	48°	$s = 3.1/\cos 48^\circ$	4.6328773	4.6	$s = 4.6$
19		36	t	58°	$t = 36/\cos 58^\circ$	67.934877	67.9	$t = 67.9$
20		0.95	u	55°	$u = 0.95/\cos 55^\circ$	1.6562745	1.7	$u = 1.7$