

## Solutions for GeoWorkSheet No. 102

Solutions sheet No. 102			Reciprocal Cos Ratio - Find an Side 1 (degrees & minutes)					
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	<i>a</i>	52°19'	$a = 50/\cos 52^\circ 19'$	81.793321	81.8	$a = 81.8$
2		65	<i>b</i>	42°37'	$b = 65/\cos 42^\circ 37'$	88.327199	88.3	$b = 88.3$
3		200	<i>c</i>	32°56'	$c = 200/\cos 32^\circ 56'$	238.29276	238.3	$c = 238.3$
4		6	<i>d</i>	38°34'	$d = 6/\cos 38^\circ 34'$	7.6737795	7.7	$d = 7.7$
5		75	<i>e</i>	66°7'	$e = 75/\cos 66^\circ 7'$	185.24207	185.2	$e = 185.2$
6		120	<i>f</i>	67°17'	$f = 120/\cos 67^\circ 17'$	310.74045	310.7	$f = 310.7$
7		325	<i>g</i>	36°46'	$g = 325/\cos 36^\circ 46'$	405.70244	405.7	$g = 405.7$
8		16.3	<i>h</i>	58°12'	$h = 16.25/\cos 58^\circ 12'$	30.837501	30.8	$h = 30.8$
9		85	<i>i</i>	47°20'	$i = 85/\cos 47^\circ 20'$	125.41831	125.4	$i = 125.4$
10		35	<i>j</i>	77°50'	$j = 35/\cos 77^\circ 50'$	166.06872	166.1	$j = 166.1$
11		70	<i>k</i>	39°53'	$k = 70/\cos 39^\circ 53'$	91.222837	91.2	$k = 91.2$
12		260	<i>l</i>	37°31'	$l = 260/\cos 37^\circ 31'$	327.79601	327.8	$l = 327.8$
13		180	<i>m</i>	52°18'	$m = 180/\cos 52^\circ 18'$	294.34512	294.3	$m = 294.3$
14		1100	<i>n</i>	17°49'	$n = 1100/\cos 17^\circ 49'$	1155.4131	1155.4	$n = 1155.4$
15		600	<i>p</i>	25°24'	$p = 600/\cos 25^\circ 24'$	664.2052	664.2	$p = 664.2$
16		32.5	<i>q</i>	61°51'	$q = 32.5/\cos 61^\circ 51'$	68.887822	68.9	$q = 68.9$
17		7.6	<i>r</i>	76°40'	$r = 7.6/\cos 76^\circ 40'$	32.955234	33	$r = 33$
18		16.8	<i>s</i>	50°21'	$s = 16.8/\cos 50^\circ 21'$	26.328321	26.3	$s = 26.3$
19		400	<i>t</i>	59°8'	$t = 400/\cos 59^\circ 8'$	779.66332	779.7	$t = 779.7$
20		215	<i>u</i>	64°16'	$u = 215/\cos 64^\circ 16'$	495.18264	495.2	$u = 495.2$