

## Solutions for GeoWorkSheet No. 82

Solutions sheet No. 82			Sine Ratio - Find a Side (degrees & minutes)					
Working								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	1 Dec. Place	Solution
1	$a$		100	$25^{\circ}35'$	$a = 100\sin 25^{\circ}35'$	43.18234	43.2	$a = 43.2$
2	$b$		135	$46^{\circ}36'$	$b = 135\sin 46^{\circ}36'$	98.087581	98.1	$b = 98.1$
3	$c$		49	$38^{\circ}4'$	$c = 49\sin 38^{\circ}4'$	30.21232	30.2	$c = 30.2$
4	$d$		70	$22^{\circ}58'$	$d = 70\sin 22^{\circ}58'$	27.313687	27.3	$d = 27.3$
5	$e$		340	$33^{\circ}40'$	$e = 340\sin 33^{\circ}40'$	188.48251	188.5	$e = 188.5$
6	$f$		260	$39^{\circ}54'$	$f = 260\sin 39^{\circ}54'$	166.7769	166.8	$f = 166.8$
7	$g$		4.2	$61^{\circ}38'$	$g = 4.2\sin 61^{\circ}38'$	3.6956855	3.7	$g = 3.7$
8	$h$		55	$41^{\circ}53'$	$h = 55\sin 41^{\circ}53'$	36.718881	36.7	$h = 36.7$
9	$i$		4250	$33^{\circ}44'$	$i = 4250\sin 33^{\circ}44'$	2360.1455	2360.1	$i = 2360.1$
10	$j$		600	$71^{\circ}25'$	$j = 600\sin 71^{\circ}25'$	568.71669	568.7	$j = 568.7$
11	$k$		175	$48^{\circ}40'$	$k = 175\sin 48^{\circ}40'$	131.40401	131.4	$k = 131.4$
12	$l$		45	$38^{\circ}30'$	$l = 45\sin 38^{\circ}30'$	28.013159	28	$l = 28$
13	$m$		110	$44^{\circ}55'$	$m = 110\sin 44^{\circ}55'$	77.668535	77.7	$m = 77.7$
14	$n$		70	$44^{\circ}10'$	$n = 70\sin 44^{\circ}10'$	48.772353	48.8	$n = 48.8$
15	$p$		6	$60^{\circ}25'$	$p = 6\sin 60^{\circ}25'$	5.2178314	5.2	$p = 5.2$
16	$q$		43.7	$65^{\circ}38'$	$q = 43.7\sin 65^{\circ}38'$	39.807372	39.8	$q = 39.8$
17	$r$		425	$76^{\circ}32'$	$r = 425\sin 76^{\circ}32'$	413.31487	413.3	$r = 413.3$
18	$s$		35	$57^{\circ}28'$	$s = 35\sin 57^{\circ}28'$	29.507755	29.5	$s = 29.5$
19	$t$		500	$40^{\circ}50'$	$t = 500\sin 40^{\circ}50'$	326.93045	326.9	$t = 326.9$
20	$u$		125	$57^{\circ}16'$	$u = 125\sin 57^{\circ}16'$	105.14954	105.1	$u = 105.1$