

Solutions for GeoWorkSheet No. 112

Solutions sheet No. 112			Sine Rule - Find an Side 1					
Working using $a\sin A = b\sin B$								
No.	a	b	A	B	Equation	Calculator	Rounded	Solution
1	a	10	41°	76°	$a = 10\sin 41^\circ / \sin 76^\circ$	6.7614338	6.8	$a = 6.8$
2	b	20	47°	71°	$b = 20\sin 47^\circ / \sin 71^\circ$	15.469896	15.5	$b = 15.5$
3	c	35	45°	73°	$c = 35\sin 45^\circ / \sin 73^\circ$	25.879551	25.9	$c = 25.9$
4	d	10	32°	80°	$d = 10\sin 32^\circ / \sin 80^\circ$	5.3809412	5.4	$d = 5.4$
5	e	13	67°	37°	$e = 13\sin 67^\circ / \sin 37^\circ$	19.884122	19.9	$e = 19.9$
6	f	8.75	47°	58°	$f = 8.75\sin 47^\circ / \sin 58^\circ$	7.5459693	7.5	$f = 7.5$
7	g	100	72°	31°	$g = 100\sin 72^\circ / \sin 31^\circ$	184.65752	184.7	$g = 184.7$
8	h	36	52°	54°	$h = 36\sin 52^\circ / \sin 54^\circ$	35.065255	35.1	$h = 35.1$
9	i	6.25	82°	46°	$i = 6.25\sin 82^\circ / \sin 46^\circ$	8.6039663	8.6	$i = 8.6$
10	j	300	33°	80°	$j = 300\sin 33^\circ / \sin 80^\circ$	165.91229	165.9	$j = 165.9$
11	k	45	70°	75°	$k = 45\sin 70^\circ / \sin 75^\circ$	43.777862	43.8	$k = 43.8$
12	l	25	34°	71°	$l = 25\sin 34^\circ / \sin 71^\circ$	14.785349	14.8	$l = 14.8$
13	m	60	80°	50°	$m = 60\sin 80^\circ / \sin 50^\circ$	77.134513	77.1	$m = 77.1$
14	n	120	41°	73°	$n = 120\sin 41^\circ / \sin 73^\circ$	82.324262	82.3	$n = 82.3$
15	p	12.5	44°	64°	$p = 12.5\sin 44^\circ / \sin 64^\circ$	9.6609781	9.7	$p = 9.7$
16	q	9.25	83°	36°	$q = 9.25\sin 83^\circ / \sin 36^\circ$	15.619738	15.6	$q = 15.6$
17	r	75	48°	72°	$r = 75\sin 48^\circ / \sin 72^\circ$	58.604153	58.6	$r = 58.6$
18	s	80	65°	77°	$s = 80\sin 65^\circ / \sin 77^\circ$	74.411792	74.4	$s = 74.4$
19	t	2.4	46°	68°	$t = 2.4\sin 46^\circ / \sin 68^\circ$	1.8619991	1.9	$t = 1.9$
20	u	32	62°	67°	$u = 32\sin 62^\circ / \sin 67^\circ$	30.694377	30.7	$u = 30.7$