

Solutions for GeoWorkSheet No. 85

Solutions sheet No. 85				Sine Ratio - Find an Angle (degrees & minutes)				
Working								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	Nearest Minute	Solution
1	36		62	a	$a = \sin^{-1}(36/62)$	35.495933	35°30'	$a^\circ = 35^\circ 30'$
2	80		155	b	$b = \sin^{-1}(80/155)$	31.072951	31°4'	$b^\circ = 31^\circ 4'$
3	58		95	c	$c = \sin^{-1}(58/95)$	37.627569	37°38'	$c^\circ = 37^\circ 38'$
4	13		15	d	$d = \sin^{-1}(13/15)$	60.073565	60°4'	$d^\circ = 60^\circ 4'$
5	16		25	e	$e = \sin^{-1}(16/25)$	39.791819	39°48'	$e^\circ = 39^\circ 48'$
6	22		30	f	$f = \sin^{-1}(22/30)$	47.166572	47°10'	$f^\circ = 47^\circ 10'$
7	8		13	g	$g = \sin^{-1}(8/13)$	37.979872	37°59'	$g^\circ = 37^\circ 59'$
8	8		17	h	$h = \sin^{-1}(8/17)$	28.072487	28°4'	$h^\circ = 28^\circ 4'$
9	75		90	i	$i = \sin^{-1}(75/90)$	56.44269	56°27'	$i^\circ = 56^\circ 27'$
10	14		18	j	$j = \sin^{-1}(14/18)$	51.057559	51°3'	$j^\circ = 51^\circ 3'$
11	150		210	k	$k = \sin^{-1}(150/210)$	45.584691	45°35'	$k^\circ = 45^\circ 35'$
12	240		350	l	$l = \sin^{-1}(240/350)$	43.291808	43°18'	$l^\circ = 43^\circ 18'$
13	90		240	m	$m = \sin^{-1}(90/240)$	22.024313	22°1'	$m^\circ = 22^\circ 1'$
14	34		50	n	$n = \sin^{-1}(34/50)$	42.843643	42°51'	$n^\circ = 42^\circ 51'$
15	48		65	p	$p = \sin^{-1}(48/65)$	47.600527	47°36'	$p^\circ = 47^\circ 36'$
16	72		96	q	$q = \sin^{-1}(72/96)$	48.590378	48°35'	$q^\circ = 48^\circ 35'$
17	5		6.25	r	$r = \sin^{-1}(5/6.25)$	53.130102	53°8'	$r^\circ = 53^\circ 8'$
18	4.5		5.5	s	$s = \sin^{-1}(4.5/5.5)$	54.903199	54°54'	$s^\circ = 54^\circ 54'$
19	34		43	t	$t = \sin^{-1}(34/43)$	52.250758	52°15'	$t^\circ = 52^\circ 15'$
20	460		500	u	$u = \sin^{-1}(460/500)$	66.926082	66°56'	$u^\circ = 66^\circ 56'$