

Solutions for GeoWorkSheet No. 86

Solutions sheet No. 86				Cosine Ratio - Find an Angle (degrees & minutes)				
Working								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	Nearest Minute	Solution
1		7	10	a	$a = \cos^{-1}(7/10)$	45.572996	45°34'	$a^\circ = 45^\circ 34'$
2		45	60	b	$b = \cos^{-1}(45/60)$	41.409622	41°25'	$b^\circ = 41^\circ 25'$
3		44	60	c	$c = \cos^{-1}(44/60)$	42.833428	42°50'	$c^\circ = 42^\circ 50'$
4		34	46	d	$d = \cos^{-1}(34/46)$	42.342605	42°21'	$d^\circ = 42^\circ 21'$
5		5	9	e	$e = \cos^{-1}(5/9)$	56.251011	56°15'	$e^\circ = 56^\circ 15'$
6		8	14	f	$f = \cos^{-1}(8/14)$	55.150095	55°9'	$f^\circ = 55^\circ 9'$
7		63	75	g	$g = \cos^{-1}(63/75)$	32.85988	32°52'	$g^\circ = 32^\circ 52'$
8		23	35	h	$h = \cos^{-1}(23/35)$	48.917667	48°55'	$h^\circ = 48^\circ 55'$
9		22	31	i	$i = \cos^{-1}(22/31)$	44.791325	44°47'	$i^\circ = 44^\circ 47'$
10		22	35	j	$j = \cos^{-1}(22/35)$	51.055196	51°3'	$j^\circ = 51^\circ 3'$
11		35	49	k	$k = \cos^{-1}(35/49)$	44.415309	44°25'	$k^\circ = 44^\circ 25'$
12		25	36	l	$l = \cos^{-1}(25/36)$	46.017037	46°1'	$l^\circ = 46^\circ 1'$
13		65	145	m	$m = \cos^{-1}(65/145)$	63.366881	63°22'	$m^\circ = 63^\circ 22'$
14		90	220	n	$n = \cos^{-1}(90/220)$	65.85226	65°51'	$n^\circ = 65^\circ 51'$
15		84	130	p	$p = \cos^{-1}(84/130)$	49.747758	49°45'	$p^\circ = 49^\circ 45'$
16		18	29	q	$q = \cos^{-1}(18/29)$	51.633486	51°38'	$q^\circ = 51^\circ 38'$
17		6	9	r	$r = \cos^{-1}(6/9)$	48.189685	48°11'	$r^\circ = 48^\circ 11'$
18		4.5	7.5	s	$s = \cos^{-1}(4.5/7.5)$	53.130102	53°8'	$s^\circ = 53^\circ 8'$
19		6.8	10.2	t	$t = \cos^{-1}(6.8/10.2)$	48.189685	48°11'	$t^\circ = 48^\circ 11'$
20		0.5	0.9	u	$u = \cos^{-1}(0.5/0.9)$	56.251011	56°15'	$u^\circ = 56^\circ 15'$