

Solutions for GeoWorkSheet No. 81

Solutions sheet No. 81				Tangent Ratio - Find an Angle 1				
Working								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	Nearest °	Solution
1	6	10		a	$a = \tan^{-1}(6/10)$	30.963757	31	$a = 31$
2	20	25		b	$b = \tan^{-1}(20/25)$	38.659808	39	$b = 39$
3	30	40		c	$c = \tan^{-1}(30/40)$	36.869898	37	$c = 37$
4	70	80		d	$d = \tan^{-1}(70/80)$	41.185925	41	$d = 41$
5	50	75		e	$e = \tan^{-1}(50/75)$	33.690068	34	$e = 34$
6	60	125		f	$f = \tan^{-1}(60/125)$	25.641006	26	$f = 26$
7	110	65		g	$g = \tan^{-1}(110/65)$	59.420773	59	$g = 59$
8	70	85		h	$h = \tan^{-1}(70/85)$	39.47246	39	$h = 39$
9	18	10		i	$i = \tan^{-1}(18/10)$	60.945396	61	$i = 61$
10	7	11		j	$j = \tan^{-1}(7/11)$	32.471192	32	$j = 32$
11	80	135		k	$k = \tan^{-1}(80/135)$	30.650668	31	$k = 31$
12	160	220		l	$l = \tan^{-1}(160/220)$	36.027373	36	$l = 36$
13	20	17		m	$m = \tan^{-1}(20/17)$	49.635463	50	$m = 50$
14	2.6	3.7		n	$n = \tan^{-1}(2.6/3.7)$	35.095817	35	$n = 35$
15	5.7	4.8		p	$p = \tan^{-1}(5.7/4.8)$	49.899092	50	$p = 50$
16	5	3.3		q	$q = \tan^{-1}(5/3.3)$	56.575189	57	$q = 57$
17	9.1	14.3		r	$r = \tan^{-1}(9.1/14.3)$	32.471192	32	$r = 32$
18	7.2	5.8		s	$s = \tan^{-1}(7.2/5.8)$	51.146626	51	$s = 51$
19	1.25	0.85		t	$t = \tan^{-1}(1.25/0.85)$	55.784298	56	$t = 56$
20	1.94	2.81		u	$u = \tan^{-1}(1.94/2.81)$	34.620868	35	$u = 35$