

Solutions for GeoWorkSheet No. 84

Solutions sheet No. 84				Tangent Ratio - Find a Side (degrees & minutes)				
Working								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	1 Dec. Place	Solution
1	a	90		$56^{\circ}35'$	$a = 90\tan 56^{\circ}35'$	136.40581	136.4	$a = 136.4$
2	b	100		$41^{\circ}25'$	$b = 100\tan 41^{\circ}25'$	88.213571	88.2	$b = 88.2$
3	c	25		$48^{\circ}40'$	$c = 25\tan 48^{\circ}40'$	28.423536	28.4	$c = 28.4$
4	d	25		$65^{\circ}45'$	$d = 25\tan 65^{\circ}45'$	55.497942	55.5	$d = 55.5$
5	e	160		$48^{\circ}50'$	$e = 160\tan 48^{\circ}50'$	182.98121	183	$e = 183$
6	f	28		$42^{\circ}42'$	$f = 28\tan 42^{\circ}42'$	25.837656	25.8	$f = 25.8$
7	g	2500		$24^{\circ}55'$	$g = 2500\tan 24^{\circ}55'$	1161.3454	1161.3	$g = 1161.3$
8	h	115		$46^{\circ}18'$	$h = 115\tan 46^{\circ}18'$	120.34063	120.3	$h = 120.3$
9	i	250		$38^{\circ}3'$	$i = 250\tan 38^{\circ}3'$	195.67298	195.7	$i = 195.7$
10	j	12		$32^{\circ}14'$	$j = 12\tan 32^{\circ}14'$	7.5665567	7.6	$j = 7.6$
11	k	265		$12^{\circ}45'$	$k = 265\tan 12^{\circ}45'$	59.963378	60	$k = 60$
12	l	45		$40^{\circ}50'$	$l = 45\tan 40^{\circ}50'$	38.888667	38.9	$l = 38.9$
13	m	12		$63^{\circ}21'$	$m = 12\tan 63^{\circ}21'$	23.911305	23.9	$m = 23.9$
14	n	35		$38^{\circ}33'$	$n = 35\tan 38^{\circ}33'$	27.89016	27.9	$n = 27.9$
15	p	63		$19^{\circ}50'$	$p = 63\tan 19^{\circ}50'$	22.722807	22.7	$p = 22.7$
16	q	18		$46^{\circ}30'$	$q = 18\tan 46^{\circ}30'$	18.968042	19	$q = 19$
17	r	8.2		$72^{\circ}40'$	$r = 8.2\tan 72^{\circ}40'$	26.273323	26.3	$r = 26.3$
18	s	1250		$66^{\circ}24'$	$s = 1250\tan 66^{\circ}24'$	2861.137	2861.1	$s = 2861.1$
19	t	26.5		$72^{\circ}41'$	$t = 26.5\tan 72^{\circ}41'$	84.994617	85	$t = 85$
20	u	11.08		$62^{\circ}5'$	$u = 11.08\tan 62^{\circ}5'$	20.911767	20.9	$u = 20.9$