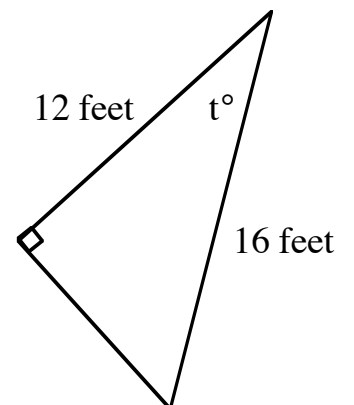
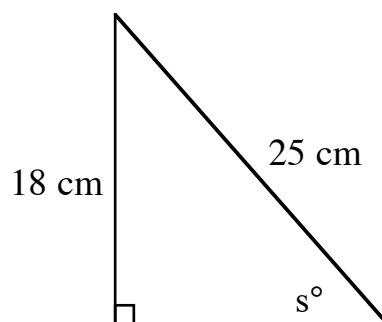
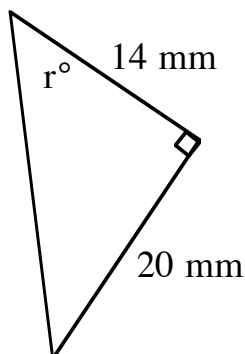
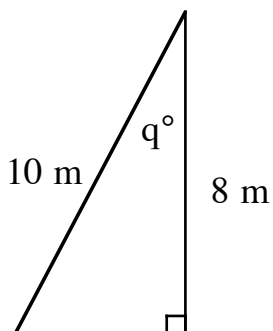
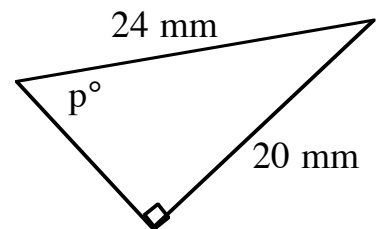
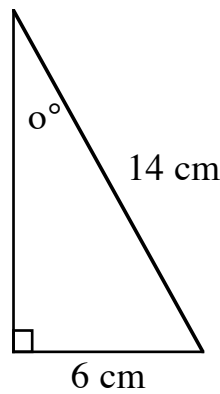
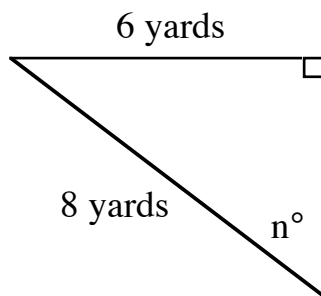
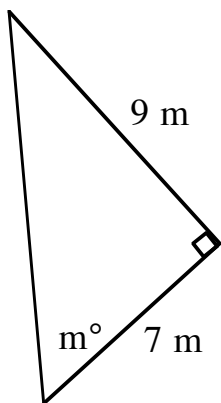
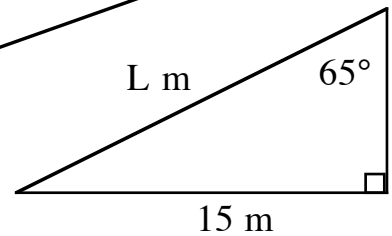
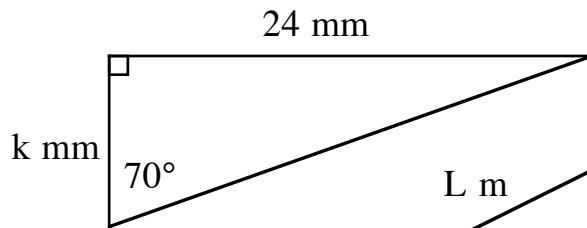
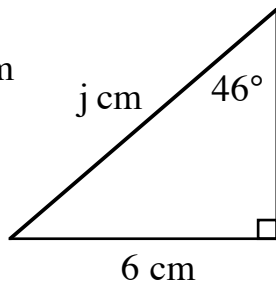
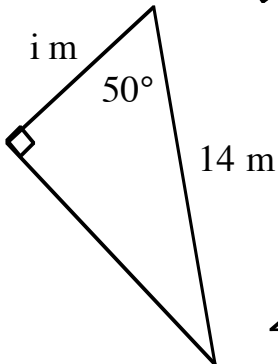
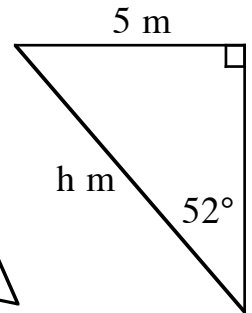
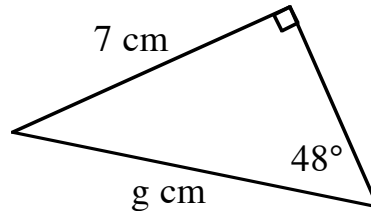
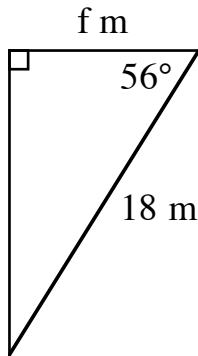
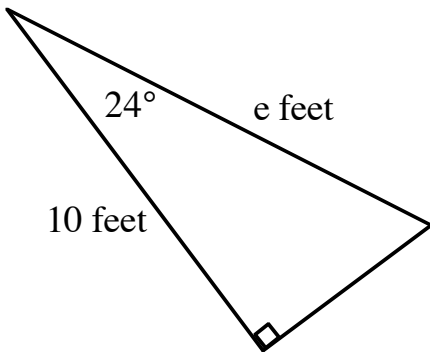
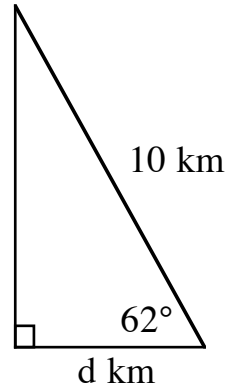
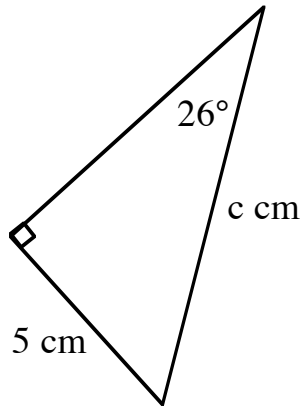
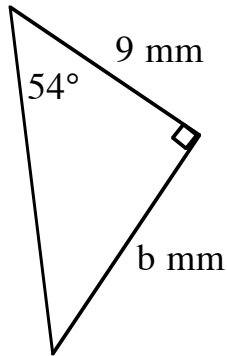
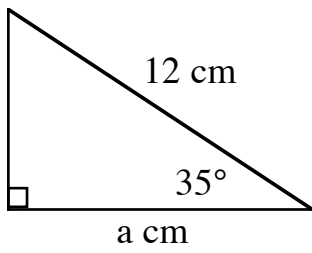


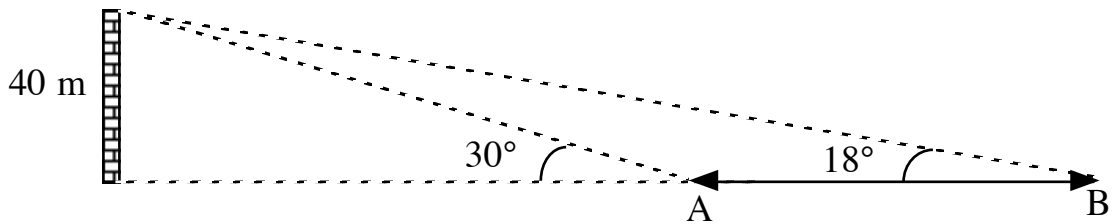
TRIGONOMETRY

1. Find the values of a, b, c etc.



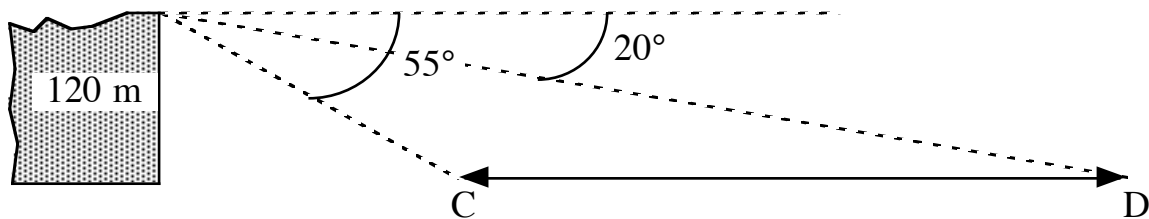
2. Two observers are at positions A and B.
They each measure the angle of elevation of a 40 metre high chimney.
The angles of elevation are 30° and 18° as shown.

Find the distance AB.



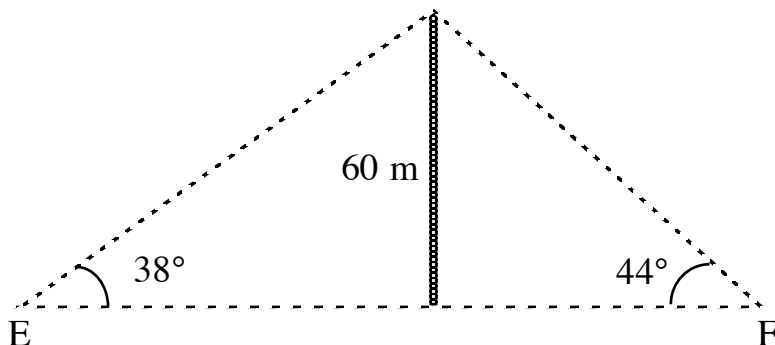
3. From the top of a 120 metre high cliff two boats are observed at positions C and D.
The angles of depression are 55° and 20° as shown.

Find the distance CD.



4. Two observers are at positions E and F.
They each measure the angle of elevation of a 60 metre mast.
The angles of elevation are 38° and 44° as shown.

Find the distance EF.



ANSWERS

1. $a = 9.8$	$b = 12.4$	$c = 11.4$	$d = 4.7$	$e = 10.9$
$f = 10.1$	$g = 9.4$	$h = 6.3$	$i = 9.0$	$j = 8.3$
$k = 8.7$	$L = 16.6$	$m = 52.1$	$n = 48.6$	$o = 25.4$
$p = 56.4$	$q = 36.9$	$r = 55.0$	$s = 46.1$	$t = 41.4$

2. $AB = 53.8 \text{ m}$

3. $CD = 245.7 \text{ m}$

4. $EF = 138.9 \text{ m}$