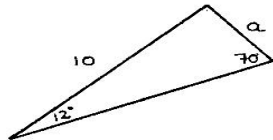


Mathematics Revision Exercises

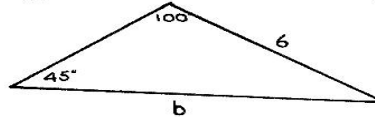
The Sine Rule

1. Use the SINE RULE to find the length of the unknown side in each of the following:-

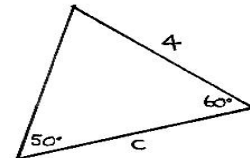
a)



b)

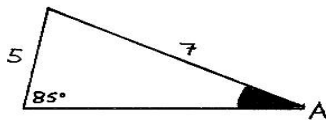


c)

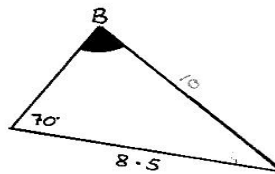


2. Find the missing angle in each of the following:-

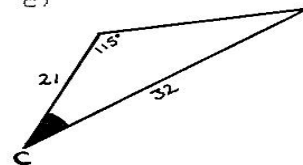
a)



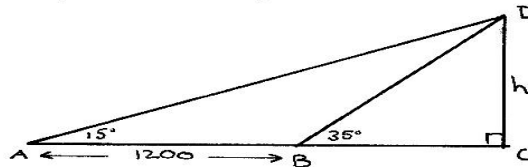
b)



c)



3. In triangle ABC, $a=8$, angle $A=49^\circ$, angle $B=57^\circ$. Find the length of side b .
4. In triangle ABC, $a=17$, $b=9$, angle $A=55^\circ$. Calculate the angle at B .
5. A Surveyor measures a base line AB 440m long. He takes bearings of a landmark C from A and B, and finds that angle BAC is 48° and angle ABC is 75° . Calculate the distance of C from A and from B.
6. From a point A, level with the foot of a hill, the angle of elevation of the top of the hill is 15° . From a point B, 1200m closer to the foot of the hill, the angle of elevation of the top is 35° . Calculate the height (h) of the hill. The diagram for this question is given below.



ANSWERS

1. a) 11.2 b) 10.4 c) 4.9
 2. a) 45.4° b) 53° c) 36.5°
 3. $b=8.89$ 4. angle $B=25.7^\circ$ 5) $AC=506m$, $BC=389m$ 6) $h=521m$