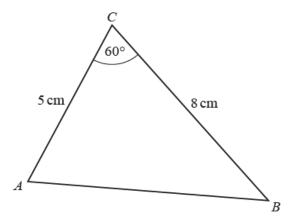


8.5 – Cosine rule and applications

Student name: _____ Score: _____

1.

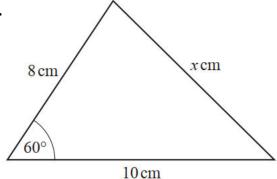


NOT TO SCALE

Find AB.

 $AB = \dots \qquad \qquad \text{cm [3]}$

2.

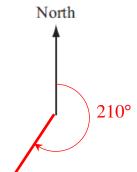


NOT TO SCALE

Find the value of x^2 .

$$x^2 = \dots 84$$
 [3]

- 3. The distance between towns A and B is 50 km. The bearing of A from B is 210°.
 - (a) Sketch the positions of A and B showing clearly the angle of 210°.



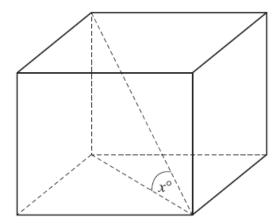
[1]

(b) Calculate how far west *A* is from *B*.

Answer(b) 25 km [2]



4.



NOT TO SCALE

The diagram shows a cube of side length 1.

Find the value of $\tan x^{\circ}$.

	$\sqrt{2}$	
Answer		[3]

5. The bearing of point *B* from point *A* is 234° .

Work out the bearing of point A from point B.

6. The bearing of P from Q is 110° .

Find the bearing of Q from P.

