8.5 – Cosine rule and applications

Student name: _____ Score: _____

1.

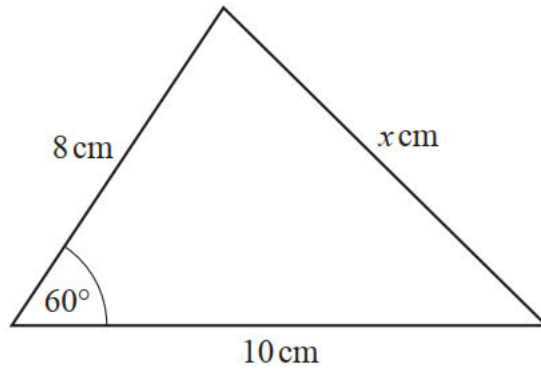Find AB.

$AB =$ .... cm [3]

2.
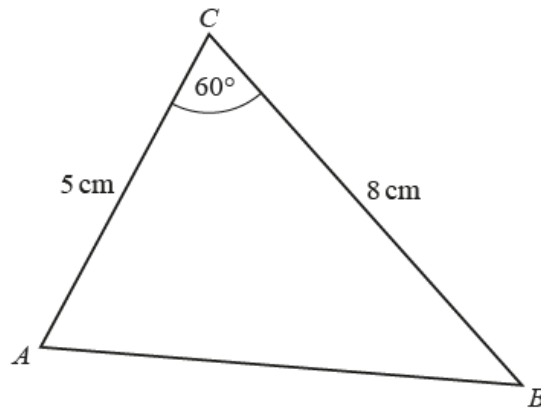
Find the value of x^2.

$x^2 =$ .... [3]

3. The distance between towns A and B is 50 km.
The bearing of A from B is 210°.

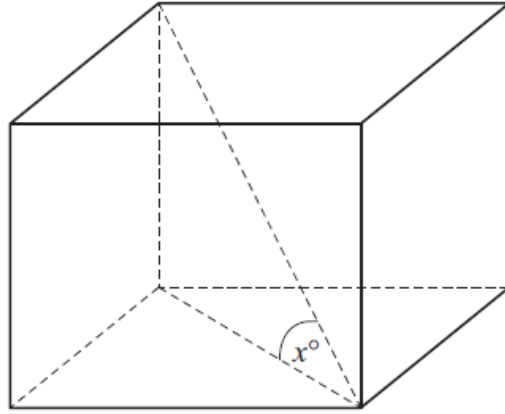(a) Sketch the positions of A and B showing clearly the angle of 210°.

North

[1]

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

Answer(b) .... km [2]

4.

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The diagram shows a cube of side length 1.

Find the value of $\tan x°$.

Answer .... [3]

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

Work out the bearing of point A from point B.

.... [2]

6. The bearing of P from Q is 110°.

Find the bearing of Q from P.

.... [2]