

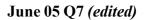
2.

Trigonometric Ratios - Edexcel Past Exam Questions

- 1. In the triangle ABC, AB = 8 cm, AC = 7 cm, $\angle ABC = 28.5^{\circ}$ and $\angle ACB = x$ degrees.
 - (a) Use the sine rule to find the value of $\sin x$, giving your answer to 3 decimal places. (3)

Given that there are two possible values of *x*,

(b) find these values of x, giving your answers to 2 decimal places. (3)



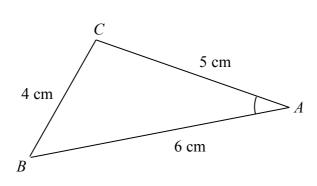




Figure 1 shows the triangle *ABC*, with AB = 6 cm, BC = 4 cm and CA = 5 cm.

(a) Show that $\cos A = \frac{3}{4}$.	(3)

(b) Hence, or otherwise, find the exact value of $\sin A$. (2)

June 07 Q4

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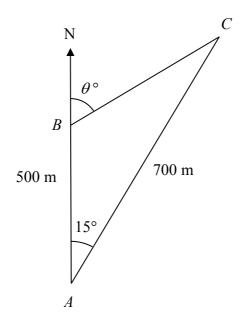


Figure 1 shows 3 yachts A, B and C which are assumed to be in the same horizontal plane. Yacht B is 500 m due north of yacht A and yacht C is 700 m from A. The bearing of C from A is 015° .

(a) Calculate the distance between yacht B and yacht C, in metres to 3 significant figures.

(3)

The bearing of yacht *C* from yacht *B* is θ° , as shown in Figure 1.

(b) Calculate the value of θ .

(4)

Jan 08 Q6

4. In the triangle ABC, AB = 11 cm, BC = 7 cm and CA = 8 cm.

(a) Find the size of angle C, giving your answer in degrees to 3 significant figures. (3)

(b) Find the area of triangle ABC, giving your answer in cm² to 3 significant figures. (3) Jan 11 Q2 (edited)