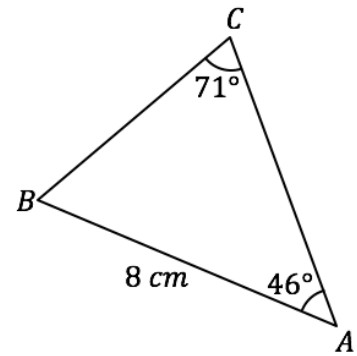


Sine Rule, Cosine Rule and Area of a Triangle

Question 1

Work out the length of BC .

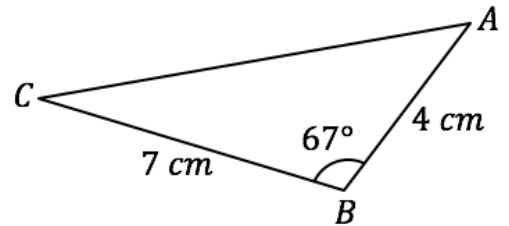
Give your answer to 2 decimal places.



Question 2

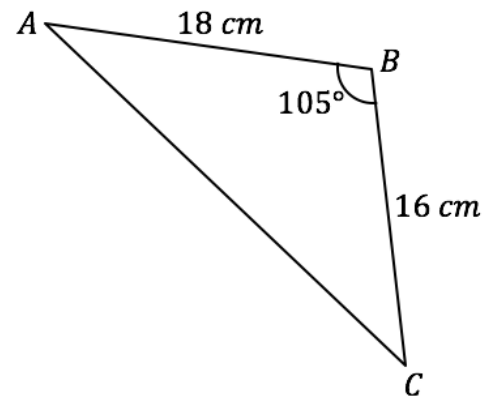
Work out the length of AC .

Give your answer to 2 decimal places.



Question 3

Find the area of the triangle ABC , giving your answer correct to 2 decimal places.

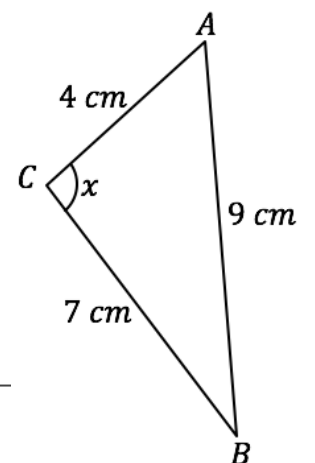


Question 4

Find the size of the angle marked x in the triangle drawn below.

Give your answer correct to 1 decimal place.

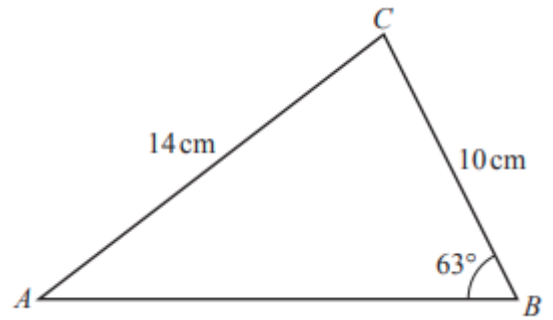
.....°



Question 5

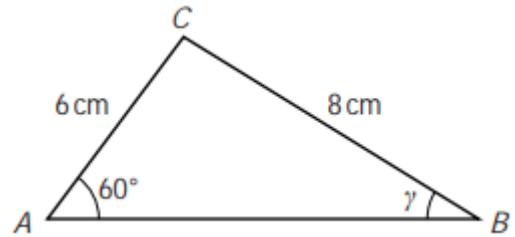
The diagram shows triangle ABC, with AC = 14 cm, BC = 10 cm and angle ABC = 63° .

Find the length of AB.



Question 6

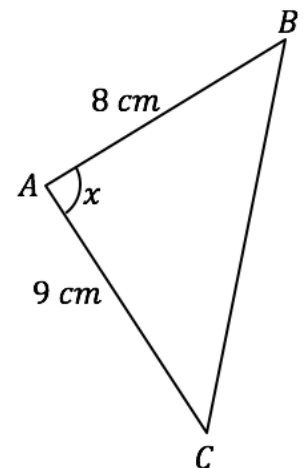
The diagram shows a triangle ABC with AC = 6 cm, BC = 8 cm, angle BAC = 60° and angle ABC = γ . Find the exact value of $\sin \gamma$, simplifying your answer.



Question 7

The area of the triangle drawn below is 35.9cm^2 .

Find the size of the angle marked x , giving your answer correct to 1 decimal place.



Question 8

In the triangle ABC, $AB = 11\text{ cm}$, $BC = 7\text{ cm}$ and $CA = 8\text{ cm}$.

Find the area of triangle ABC, giving your answer in cm^2 to 3 significant figures.

..... cm^2

(3 marks)