Name: _____

GCSE (1 - 9)

The Cosine Rule

Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

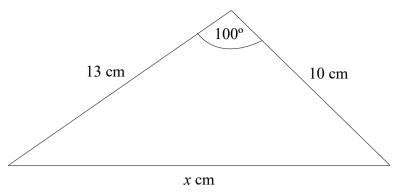
Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1

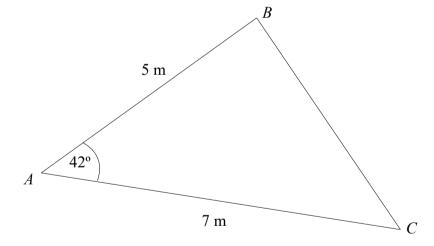


Work out the value of x.

Give your answer to 1 decimal place.

(Total for question 1 is 3 marks)

2

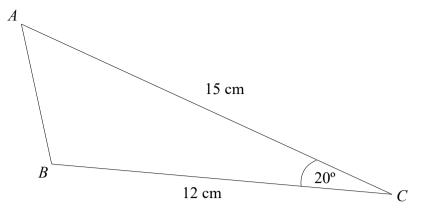


Work out the length of BC. Give your answer to 3 significant figures.

.....n

(Total for question 2 is 3 marks)



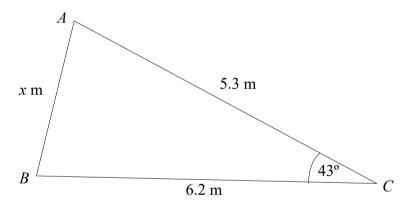


Work out the length of AB. Give your answer to 1 decimal place.

.....cm

(Total for question 3 is 3 marks)

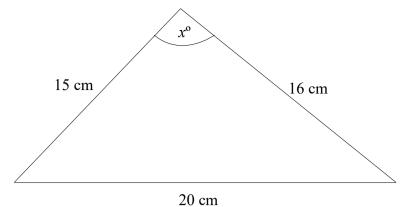
4



Work out the value of *x*. Give your answer to 3 significant figures.

(Total for question 4 is 3 marks)



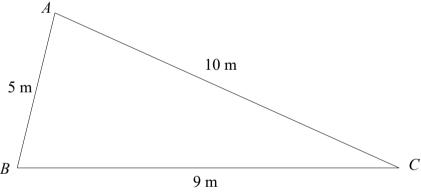


Work out the value of x.

Give your answer to 3 significant figures.

(Total for question 5 is 3 marks)

6

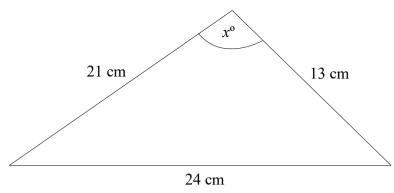


Work out the size of angle *ABC* Give your answer to the nearest degree.

......

(Total for question 6 is 3 marks)

7

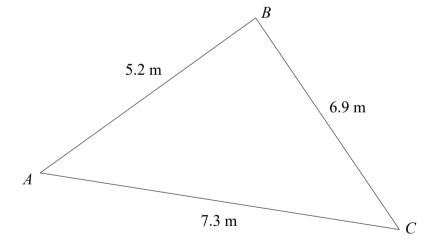


Work out the value of x.

Give your answer to 1 decimal place.

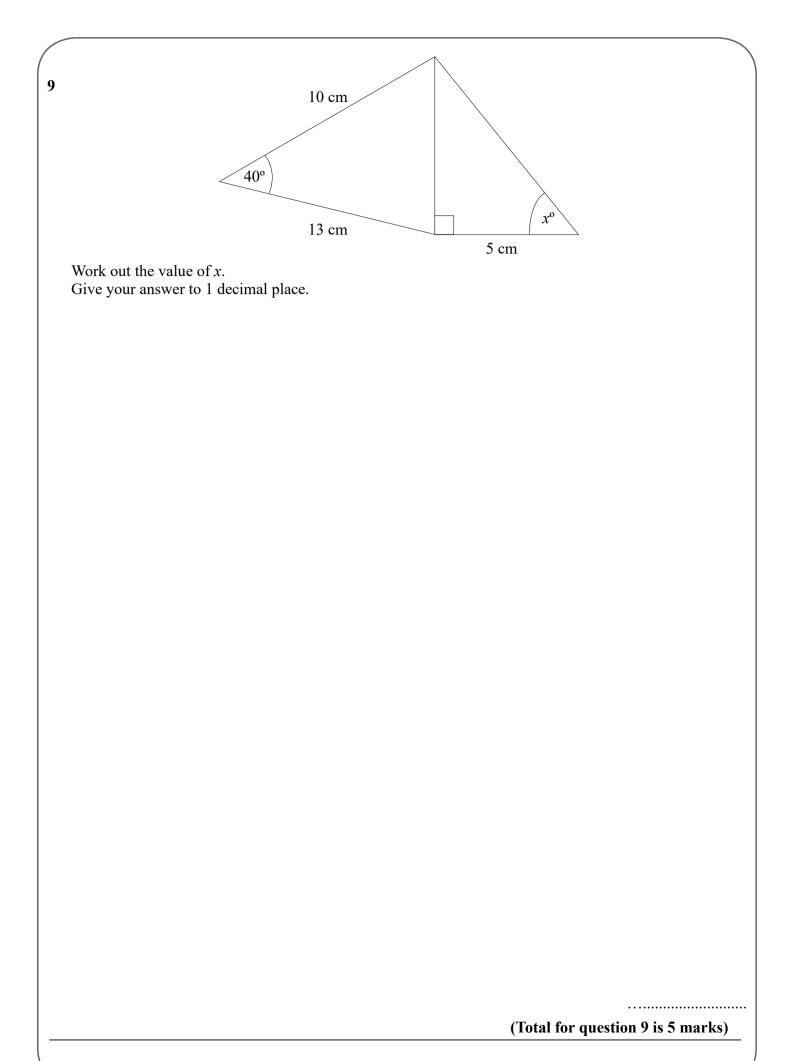
(Total for question 7 is 3 marks)

8

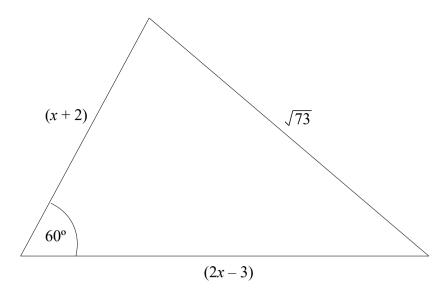


Work out the size of angle BAC. Give your answer to 3 significant figures.

(Total for question 8 is 3 marks)



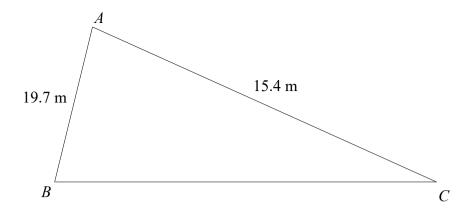
10



Work out the value of x.

(Total for question 10 is 5 marks)





The area of the triangle is 100m^2 Calculate the perimeter of triangle *ABC*. Give your answer to 3 significant figures.

.....m