

Name: _____

ASM Tuition Academy

The Sine 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 you're working out**.

Information:

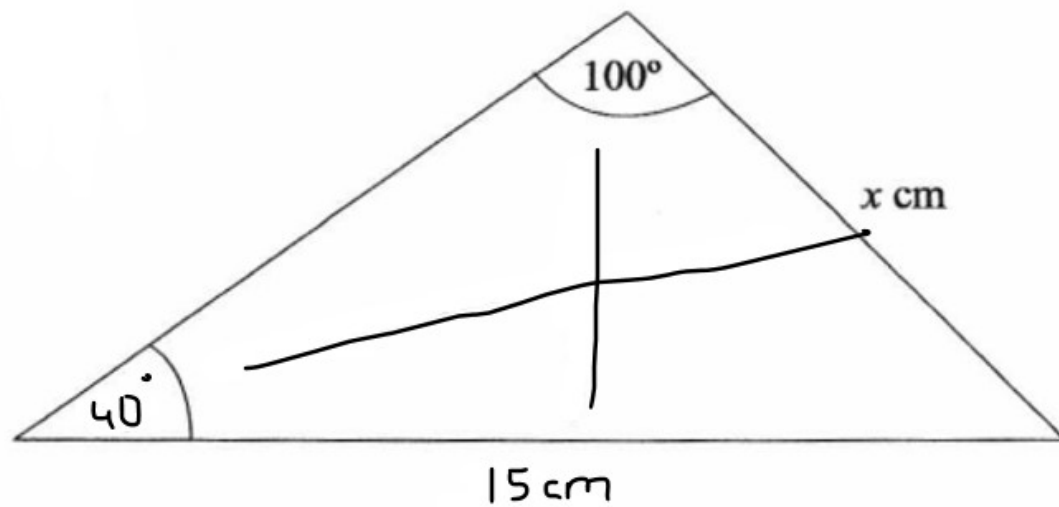
- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice:

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

Q1- Work out the value of x.

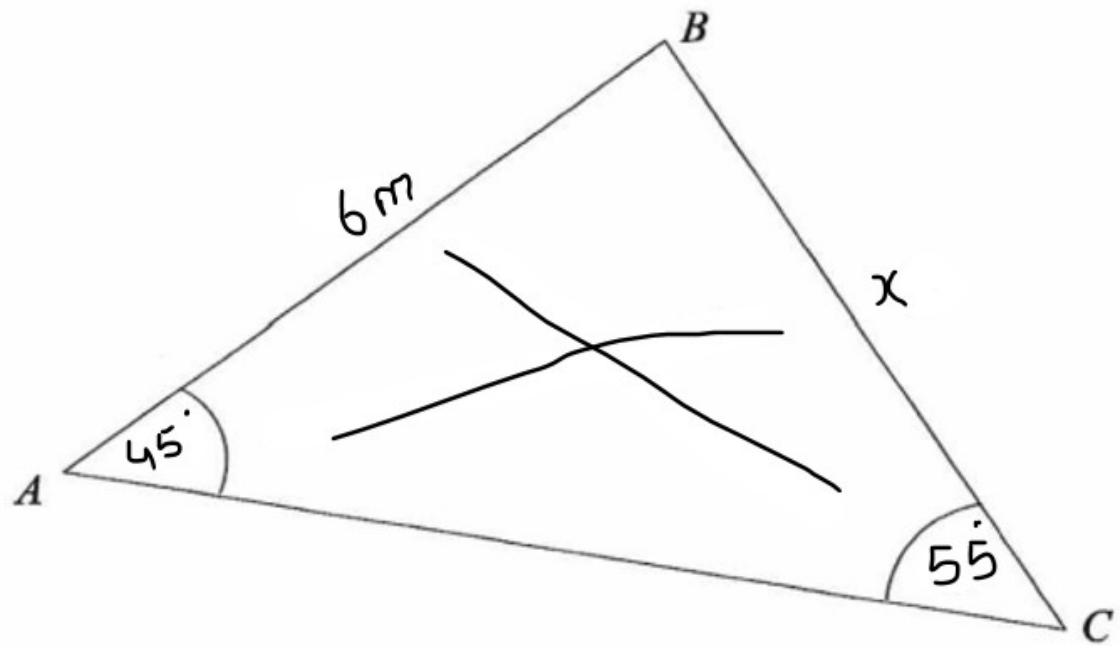
Give your answer to 1 decimal place



.....
(Total for Question 1 is 3 marks)

Q2- Work out the length of BC.

Give your answer to 3 significant figures

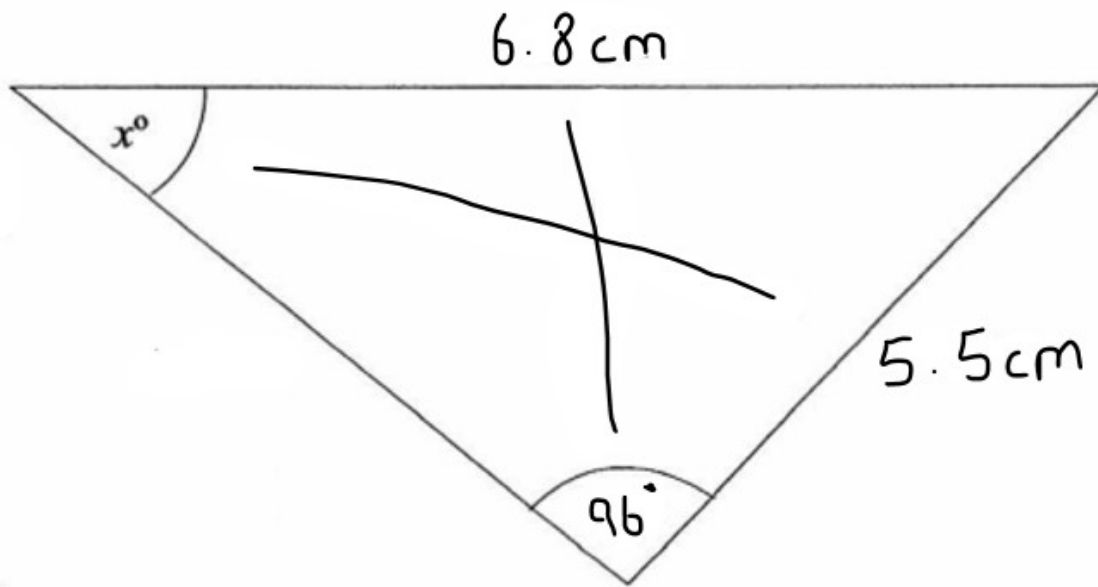


.....m

(Total for Question 2 is 3 marks)

Q3- Work out the value of x .

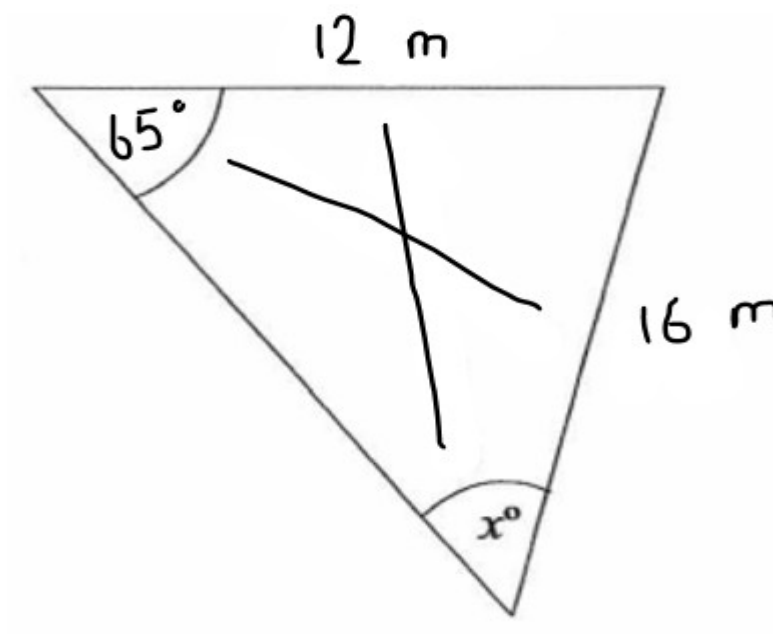
Give your answer to 3 significant figures



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(Total for Question 3 is 3 marks)

Q4- Work out the size of x .

Give your answer to 3 significant figures

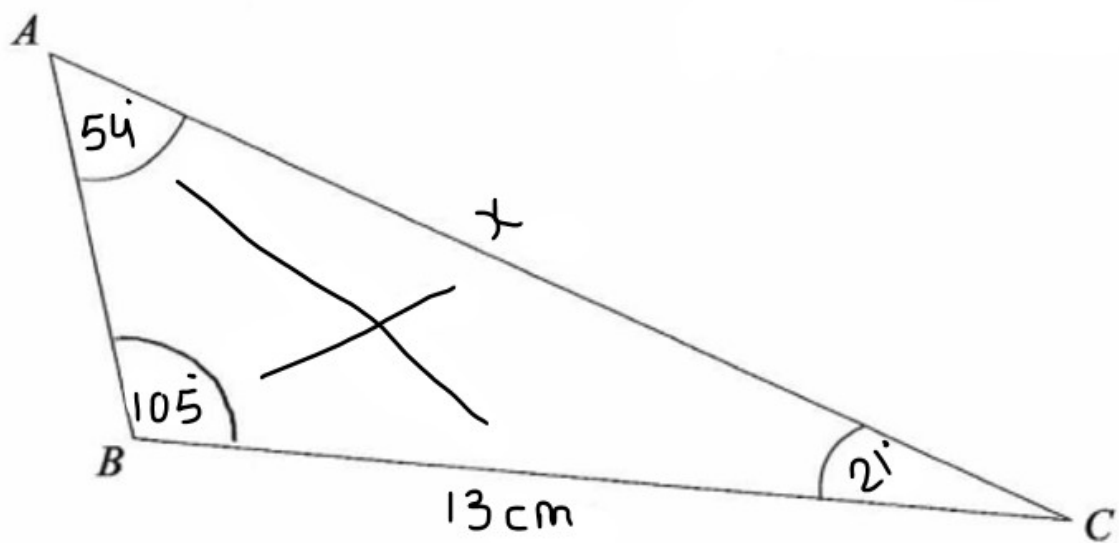


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(Total for Question 4 is 3 marks)

Q5- Work out the length of AC

Give your answer to 1 decimal place

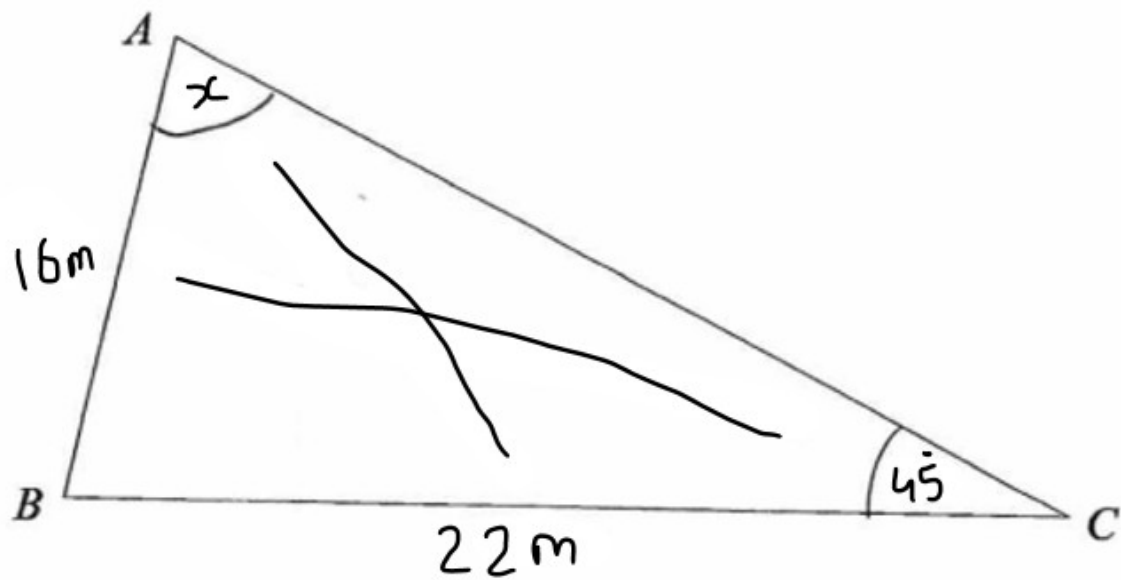


.....cm

(Total for Question 5 is 3 marks)

Q6- Work out the size of angle BAC.

Give your answer to 3 significant figures

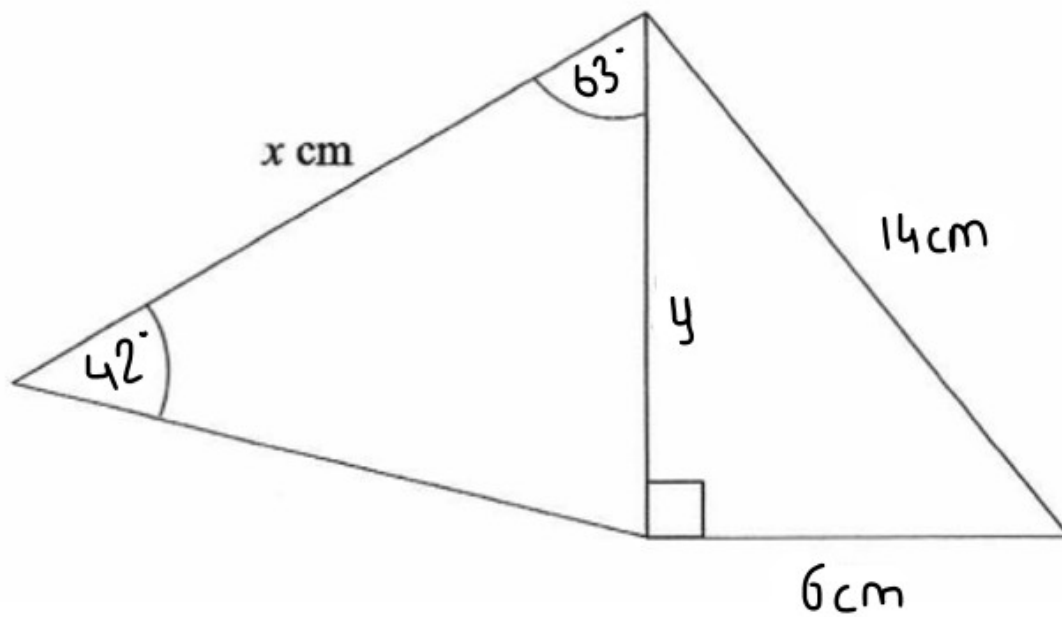


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(Total for Question 6 is 3 marks)

Q7- Work out the value of x .

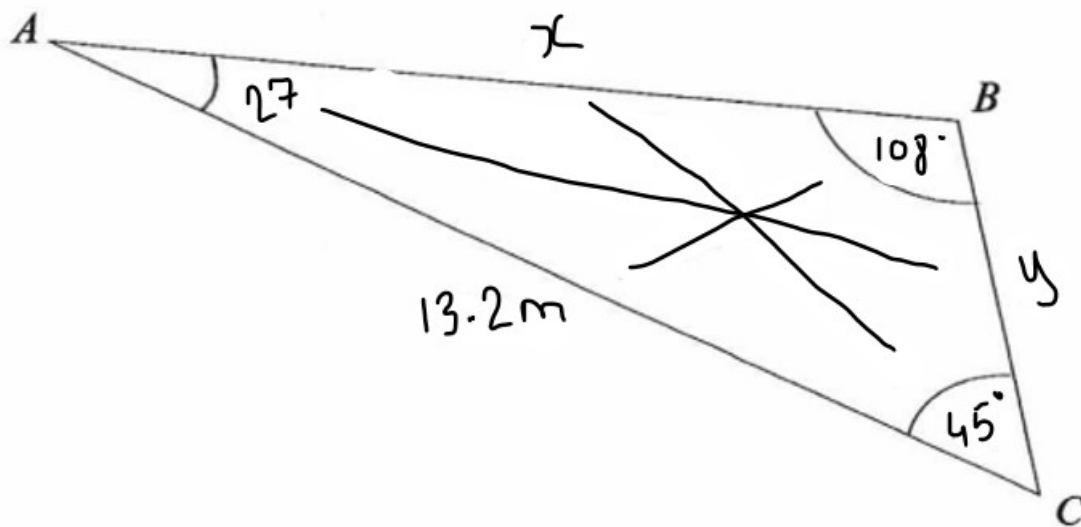
Give your answer to 1 decimal place



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(Total for Question 7 is 5 marks)

Q8- Work out the perimeter of triangle ABC.

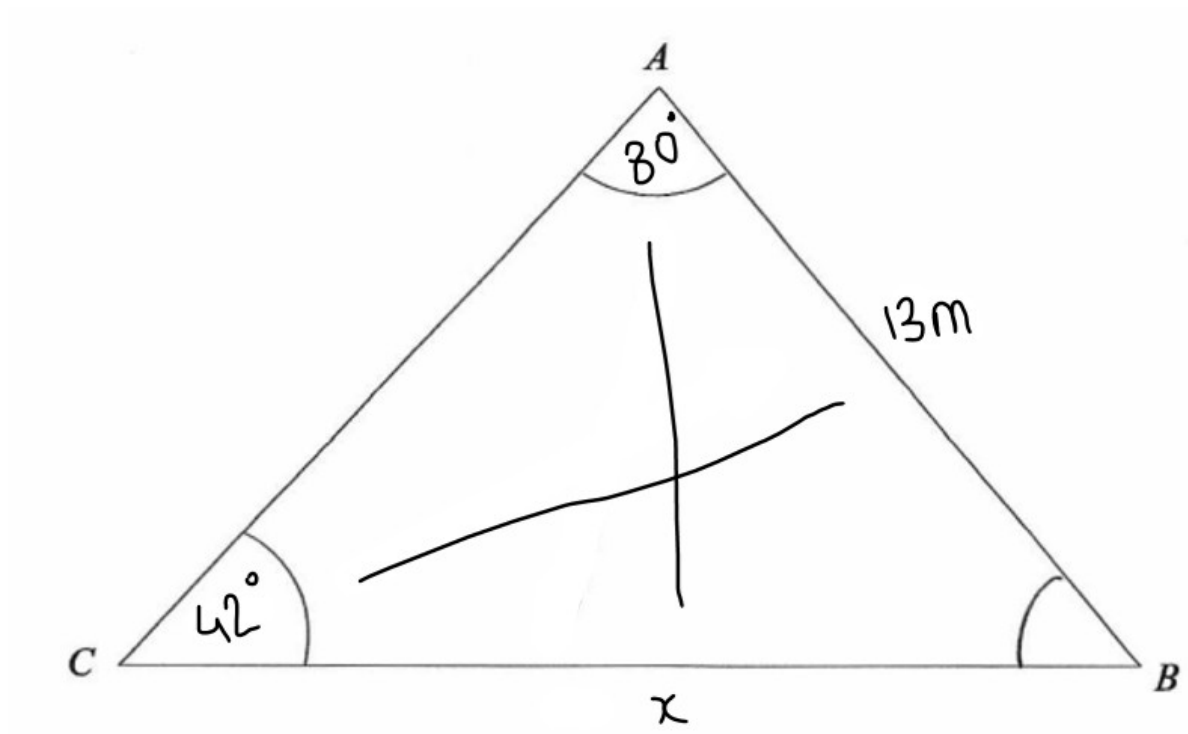
Give your answer to 3 significant figures



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 (Total for Question 8 is 4 marks)

Q9- Work out the area of triangle ABC.

Give your answer to 1 decimal place.



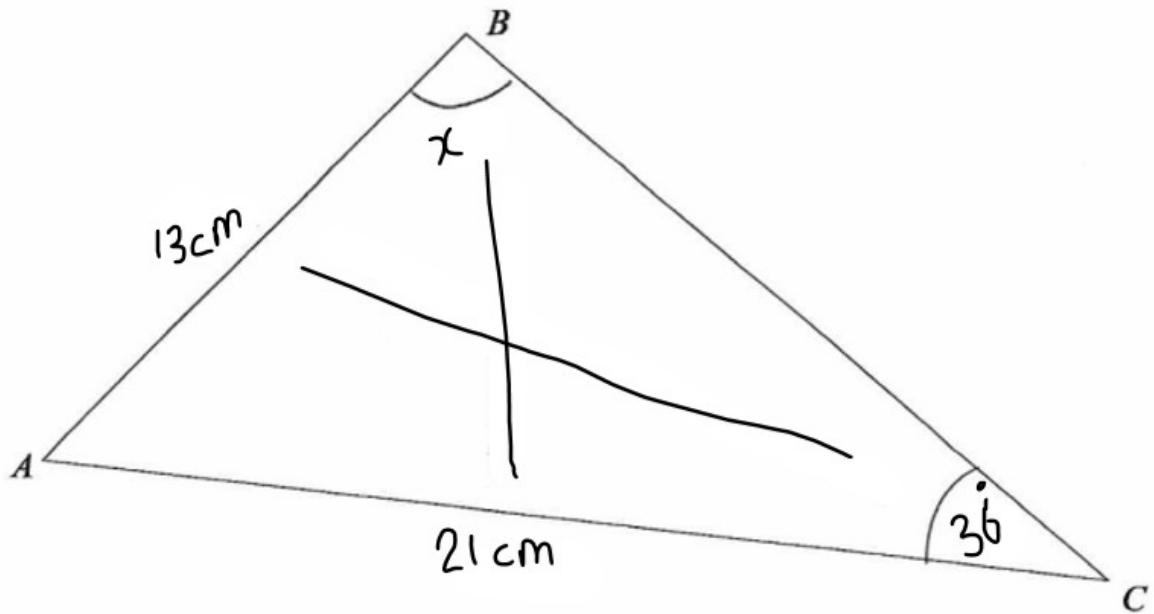
..... m^2

(Total for Question 9 is 5 marks)

Q10- Angle ABC is obtuse.

Work out the size of angle ABC.

Give your answer to 3 significant figures.



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(Total for Question 10 is 4 marks)