

Answer all TEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1

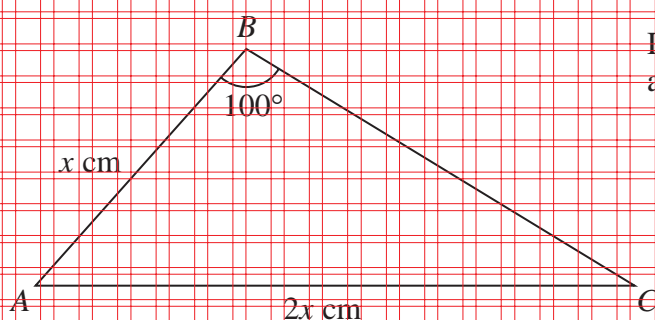


Diagram **NOT**
accurately drawn

Figure 1

In triangle ABC , $AB = x$ cm, $AC = 2x$ cm and $\angle ABC = 100^\circ$, as shown in Figure 1.

(a) Find, in degrees to the nearest 0.1° , the size of $\angle BAC$.

(4)

Given that the area of triangle ABC is 16 cm^2 ,

(b) find, to 3 significant figures, the value of x .

(3)



Question 1 continued

Example

(Total for Question 1 is 7 marks)



P 4 4 0 3 0 A 0 3 3 2