

Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1

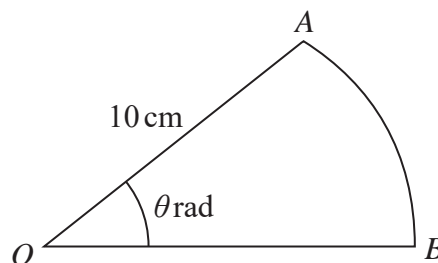


Diagram **NOT**
accurately drawn

Figure 1

Figure 1 shows a sector OAB of a circle. The circle has centre O and radius 10 cm. The area of the sector is 25 cm^2 and angle $AOB = \theta$ radians.

Find

(a) the value of θ ,

(2)

(b) the length of the arc AB .

(2)

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DO NOT WRITE IN THIS AREA



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Question 1 continued**(Total for Question 1 is 4 marks)**

P 5 3 3 9 1 A 0 3 3 6