

Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1

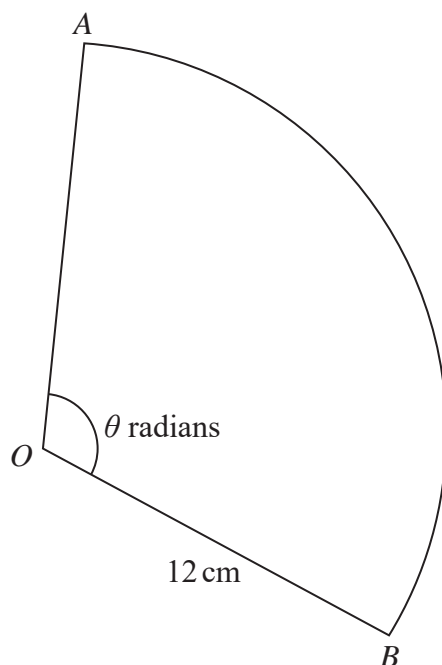


Diagram **NOT**
accurately drawn

Figure 1

Figure 1 shows the sector AOB of a circle with centre O and radius 12 cm. The angle AOB is θ radians and the area of the sector is 192 cm^2

Calculate

(a) the value of θ ,

(2)

(b) the length, in cm, of the arc AB .

(2)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

(Total for Question 1 is 4 marks)

