Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1

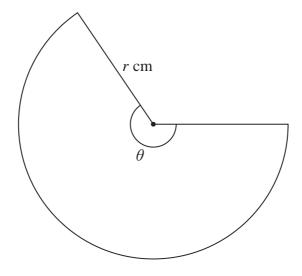


Diagram **NOT** accurately drawn

(5)

Figure 1

Figure 1 shows a sector of a circle. The circle has radius r cm and the sector has angle θ radians. The sector has an arc length of 18π cm and an area of 126π cm².

Find

- (i) the value of r,
- (ii) the exact value of θ .

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Question 1 continued	
(Tota	d for Question 1 is 5 marks)

