

2

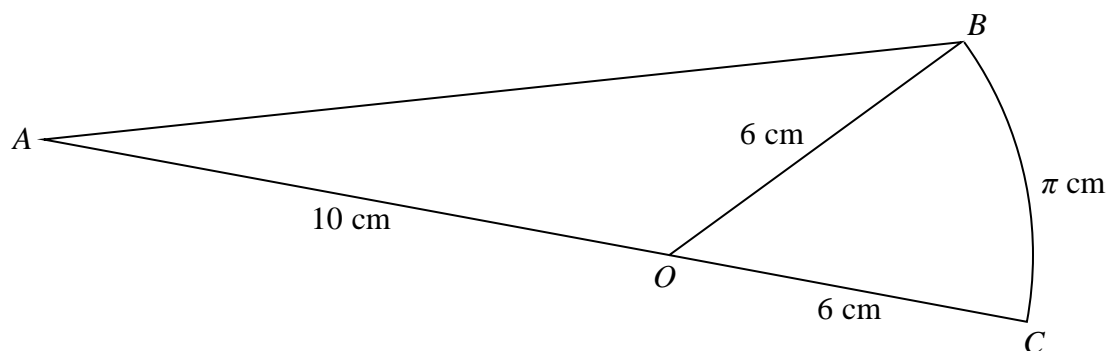
Diagram NOT
accurately drawn**Figure 1**

Figure 1 shows a shape ABC in which AOB is a triangle, AOC is a straight line and OBC is a sector of a circle with centre O .

$AO = 10$ cm, $OC = OB = 6$ cm and the length of arc $BC = \pi$ cm.

Find, to 3 significant figures,

- (a) the length of AB , (3)
- (b) the area of the shape ABC . (3)

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Question 2 continued

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(Total for Question 2 is 6 marks)