

9

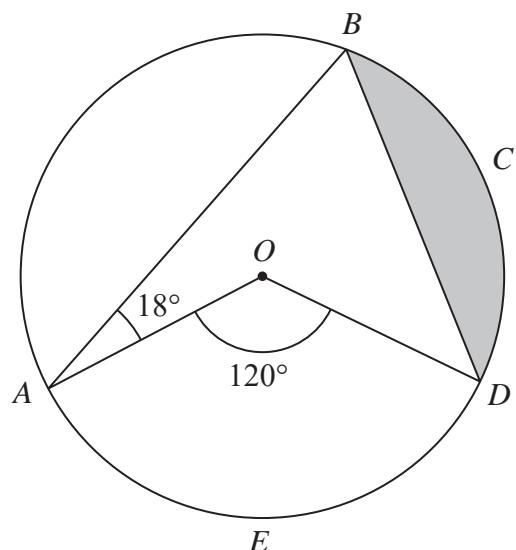


Diagram **NOT**
accurately drawn

Figure 2

Figure 2 shows a circle $ABCDE$ with centre O .

$$\angle BAO = 18^\circ \quad \angle AOD = 120^\circ$$

The area of segment BCD , shown shaded in Figure 2, is $T \text{ cm}^2$

Given that the perimeter of the sector $AODE$ is $5(3 + \pi) \text{ cm}$,

calculate the value, to one decimal place, of T .

(6)

$$\left[\text{Area of triangle} = \frac{1}{2} ab \sin C \right]$$



Question 9 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 9 is 6 marks)



P 6 6 0 2 2 R A 0 2 3 3 2