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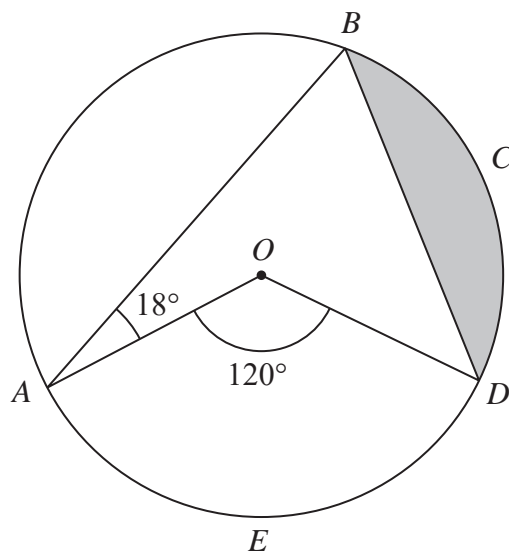


Diagram **NOT**
accurately drawn

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)

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



DO NOT WRITE IN THIS AREA

