

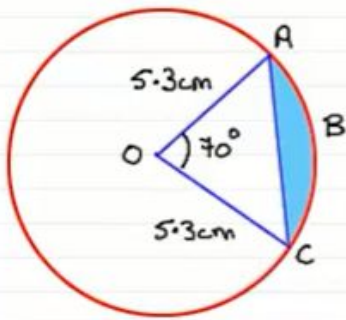


Air maths tuition

Interact, engage and perform

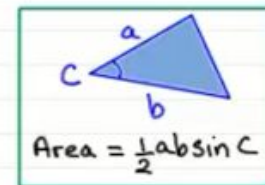
## Area of segments (degrees)

Find the area of the minor segment (shown shaded), giving your answer to 1 decimal place.



$$\begin{aligned}\text{Area of sector OAC} &= \frac{70}{360} \times \pi (5.3)^2 \\ &= 17.159... \text{ cm}^2\end{aligned}$$

$$\begin{aligned}\text{Area of OAC} &= \frac{1}{2} (5.3)^2 \sin 70^\circ \\ &= 13.197... \text{ cm}^2\end{aligned}$$



$$\begin{aligned}\therefore \text{Area of segment ABC} &= 17.159... - 13.197... \\ &= 3.961... \\ &= 4.0 \text{ cm}^2 \text{ (1dp)}\end{aligned}$$

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