

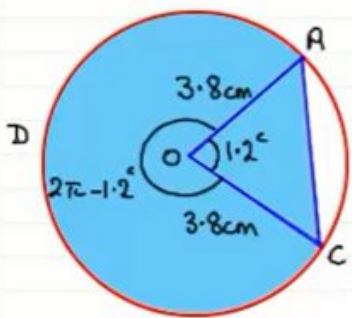


Air maths tuition

Interact, engage and perform

Area of segments (radians)

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

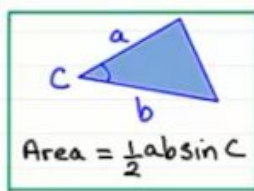


Area of sector OABC = $\frac{1.2}{2\pi} \times \pi (3.8)^2$
 $= 8.664 \text{ cm}^2$

Area of $\triangle OAC = \frac{1}{2} (3.8)^2 \sin 1.2^\circ$
 $= 6.7293... \text{ cm}^2$

\therefore Area of segment ABC = $8.664 - 6.7293...$
 $= 1.9346... \text{ cm}^2$

\therefore Area of segment ADC = $\pi (3.8)^2 - 1.9346...$
 $= 43.429...$
 $= 43.4 \text{ cm}^2$ (1 dp)



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