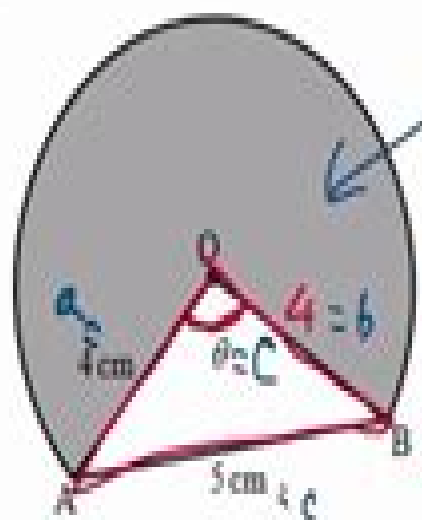


2. [Maximum mark: 6]

The following diagram shows part of a circle with centre O and radius 4 cm.



Chord AB has a length of 5 cm and $\angle AOB = \theta$.

(a) Find the value of θ , giving your answer in radians.

[3]

(b) Find the area of the shaded region.

[3]

$$a) \quad \cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

$$\cos C = \frac{4^2 + 4^2 - 5^2}{2(4)(4)} = \frac{1}{32}$$

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