



The diagram shows a circle, centre O with diameter $AB = 15$ cm.
 AC is a tangent to the circle at A and angle $AOC = 63^\circ$.

- (a) Calculate the area of the circle.

$$A = \pi r^2 = \pi \times 15^2 \approx 706.858$$

Answer(a) 707 cm² [2]

- (b) (i) Work out the size of angle ACO .

$$\hat{OAC} = 90^\circ \rightarrow \hat{ACO} = 90^\circ - 63^\circ = 27^\circ$$

Answer(b)(i) Angle $ACO =$ 27° [2]

- (ii) Give one geometrical reason for your answer to part (b)(i).

Answer(b)(ii) The angle between the tangent and the
corresponding radius is 90° [1]

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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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