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NCERT Mathematics Class 10 Exemplar Ch 9 Circles Part 1

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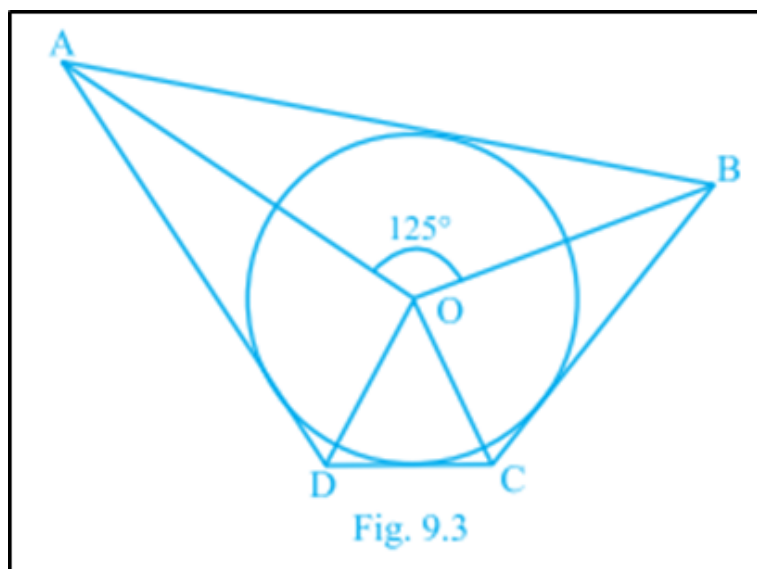
EXERCISE 9.1

1. If radii of two concentric circles are 4 cm and 5 cm, then the length of each chord of one circle which is tangent to the other circle is

(A) 3 cm (B) 6 cm (C) 9 cm (D) 1 cm

Answer: B

2. In Fig. 9.3, if $\angle AOB = 125^\circ$, then $\angle COD$ is equal to



(A) 62.5°

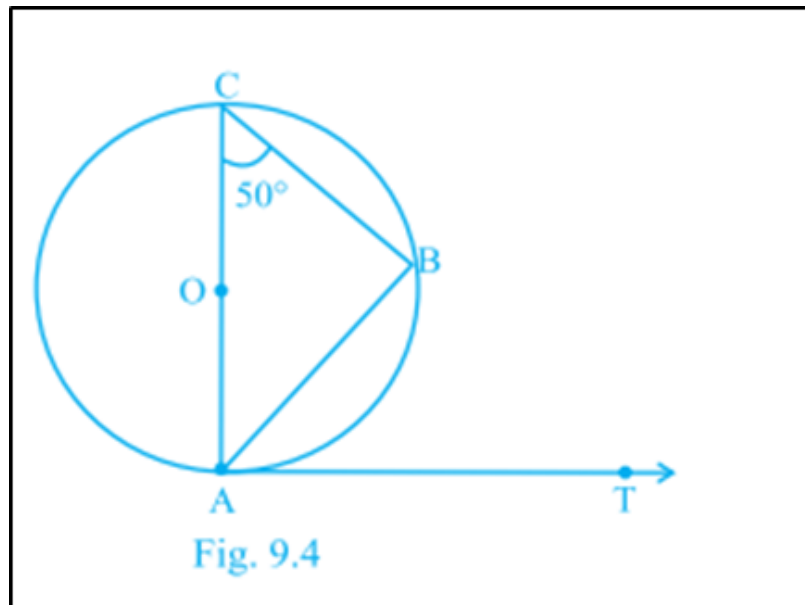
(B) 45°

(C) 35°

(D) 55°

Answer: D

3. In Fig. 9.4, AB is a chord of the circle and AOC is its diameter such that $\angle ACB = 50^\circ$. If AT is the tangent to the circle at the point A, then $\angle BAT$ is equal to



(A) 65°

(B) 60°

(C) 50°

(D) 40°

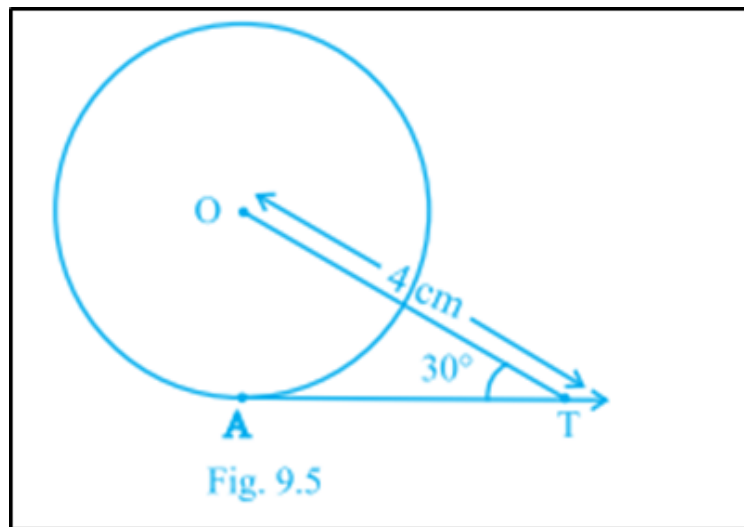
Answer: C

4. From a point P which is at a distance of 13 cm from the centre O of a circle of radius 5 cm, the pair of tangents PQ and PR to the circle are drawn. Then the area of the quadrilateral PQOR is

(A) 60cm^2 (B) 65cm^2 (C) 30cm^2 (D) 32.5cm^2

Answer: A

5. At one end A of a diameter AB of a circle of radius 5 cm, tangent XAY is drawn to the circle. The length of the chord CD parallel to XY and at a distance 8 cm from A is



(A) 4 cm

(B) 5 cm

(C) 6 cm

(D) 8 cm

Answer: D