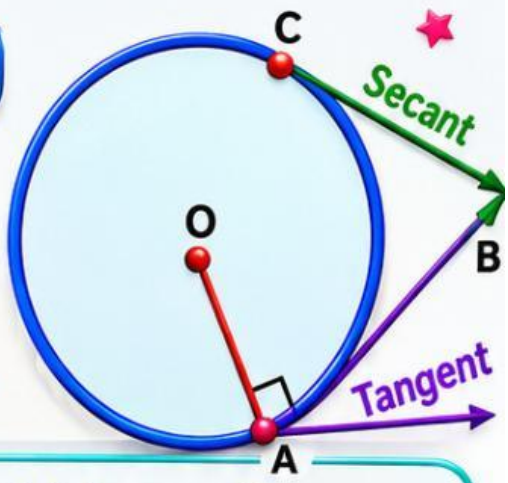
TANGENTS AND SECANTS TO A CIRCLE

10 MCQS (CLASS 10)



1 A tangent to a circle touches the circle at:

- (A) Two points
- (B) Three points
- (C) One point
- (D) No point

2 The radius drawn to the point of contact of a tangent is:

- (A) Parallel to the tangent
- (B) Equal to the tangent
- (C) Perpendicular to the tangent
- (D) Longer than the tangent

3 From an external point P, two tangents PA and PB are drawn to a circle. Then:

- (A) PA > PB
- (B) PA < PB
- (C) PA = PB
- (D) PA + PB = Radius

4 If the radius of a circle is 7 cm, then the diameter is:

- (A) 7 cm
- (B) 14 cm
- (C) 21 cm
- (D) 49 cm

5 A line that intersects a circle at two distinct points is called:

- (A) Tangent
- (B) Radius
- (C) Chord
- (D) Secant

6 The angle between a radius and a tangent at the point of contact is:

- (A) 45°
- (B) 60°
- (C) 90°
- (D) 180°

7 How many tangents can be drawn to a circle from a point outside the circle?

- (A) One
- (B) Two
- (C) Three
- (D) Infinite

8 A tangent and a secant drawn from the same external point have:

- (A) No common point
- (B) One common point outside the circle
- (C) Two common points on the circle
- (D) Infinite common points

9 If OA is a radius and AB is a tangent at A, then $\angle OAB$ equals:

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 90°

10 Which of the following statements is true?

- (A) Every secant is a tangent
- (B) Every tangent is a secant
- (C) A tangent touches the circle at exactly one point
- (D) A tangent passes through the center of the circle