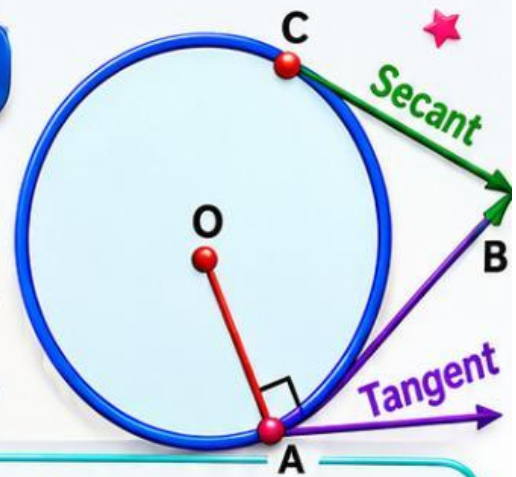


TANGENTS AND SECANTS TO A CIRCLE

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



6

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

- A 45°
- B 60°
- C 90°
- D 180°



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



7

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

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



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 $PA + PB = \text{Radius}$



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



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



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°



5

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

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



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

