

CHAPTER-9 | : Circle

QUIZ
PART-06

1. What does Theorem 9.7 state about intersecting circles?

- A) Equal radii
- B) Perpendicular bisector of the common chord
- C) Equal angles at the center
- D) Parallel centers (B)

Explanation: The line joining the centers bisects the common chord.

2. What is formed when two chords intersect in a circle?

- A) Two triangles
- B) Two equal arcs
- C) Equal segments
- D) Unequal segments (C)

Explanation: The segments formed by intersecting equal chords are equal.

3. In intersecting circles, the common chord is:

- A) Perpendicular to the line joining centers
- B) Parallel to the line joining centers
- C) Equal to the distance between centers
- D) Longer than the radius (A)

Explanation: The common chord is perpendicular to the line joining the centers.

4. What does the perpendicular from the center of a circle do to the common chord?

- A) Bisects it
- B) Divides it unequally
- C) Makes it equal to the radius
- D) Has no effect (A)

Explanation: The perpendicular bisects the common chord.

5. The line joining centers of two intersecting circles is:

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

Explanation: The line joining the centers is perpendicular to the common chord.

6. When two circles intersect, the angle between the line joining their centers and the common chord is:

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

Explanation: The line joining the centers is perpendicular to the common chord.

7. The common chord of two intersecting circles is:

- A) Always equal to the radii
- B) Always bisected by the center
- C) Perpendicular to the line joining the centers
- D) Always longer than the radius (C)

Explanation: The common chord is perpendicular to the line joining the centers.

8. In intersecting circles, the common chord's length can be calculated using:

- A) Pythagoras' Theorem
- B) Angle of intersection
- C) Distance between centers
- D) Radius of the circles (C)

Explanation: The length of the common chord can be calculated using the distance between the centers.

9. The perpendicular from the center to a chord divides the chord into:

- A) Unequal parts
- B) Equal parts
- C) No parts
- D) Two angles (B)

Explanation: The perpendicular bisects the chord into equal parts.

10. In the case of intersecting circles, what is true about the radii?

- A) They are equal
- B) They are unequal
- C) One is half the other
- D) They do not affect the chord (A)

Explanation: The radii of congruent intersecting circles are equal.