Chapter 10 – Circles

MM 20 **Class X** **Time 1h**

1 Mark Each

1. Common point of tangent and circle is called _____
2. At a given point on the circle _____ tangent (s) can be drawn.

2 Marks Each

3. A circle touches the side QR of ΔPQR at point A and touches PQ and PR produced at C and D respectively. Show that PC = ½ perimeter of ΔPQR
4. A circle is inscribed in a quadrilateral. Prove sum of opposite sides of quadrilateral is equal.
5. ABC is a right angle is a triangle with BC = 12cm and AB = 16cm. A circle with the centre O and radius r cm is inscribed in the triangle. Find r

3 Marks Each

6. Tangents TP and TQ are drawn to a circle with centre C from an external point A. Prove angle PTQ is twice angle CPQ
7. Prove that the intercept of a tangent between two parallel tangents to a circle subtends a right angle the centre of the circle.

6 Marks Each

8. The radius of the in circle of a triangle of a 4 cm and the segments into which one side is divided by the point of contact are 6cm and 8cm. Determine the other two sides of the triangle.

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