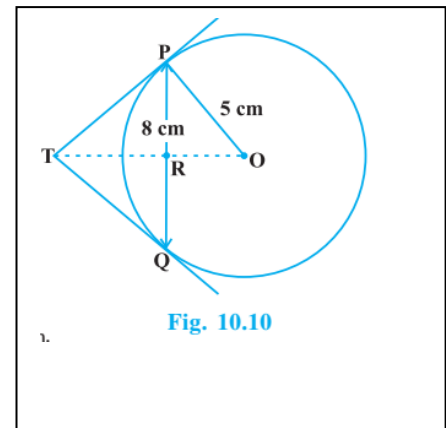


**CLASS –X, SUBJECT-MATHEMATICS**

**WORKSHEET BASED ON MODULE-3**

**Q1.** PQ is a chord of length 8 cm of a circle of radius 5 cm. The tangents at P and Q intersect at a point T (see Fig. 10.10). Find the length TP.



**Q2.** Prove that the tangents drawn at the ends of a diameter of a circle are parallel.

**Q3.** Prove that the perpendicular at the point of contact to the tangent to a circle passes through the centre.

**Q4.** The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4cm. Find the radius of the circle.

**Q5.** Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle

**Q6.** If two tangents inclined at an angle  $60^\circ$  are drawn to a circle of radius 3 cm, then find the length of each tangent.

**Q7.** If radii of two concentric circles are 4 cm and 5 cm, then find the length of each chord of one circle which is tangent to the other circle.