Circles : Worksheet -2

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

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

3. 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.

4. 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.

5. Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line-segment joining the points of contact at the centre.