**Grade: X WORKSHEET-CIRCLES**

**Answer the following:**

**1. A point P is 13 cm from the centre of the circle. The length of the tangent drawn from P to the circle is 12 cm. Find the radius of the circle.**

**2. Find the length of the tangent drawn from a point whose distance from the centre of a circle is 25 cm. Given that the radius of the circle is 7cm.**

**3. A circle is touching the side BC of a triangle ABC at P and touching AB and AC produced at Q and R respectively. Prove that **

**4. O is the centre of a circle of radius 5 cm. T is a point such that**

**OT = 13cm and OT intersects the circle at E. If AB is the tangent to the circle at E, find the length of AB.**

**5. The radius of the in-circle of a triangle is 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.**

**6. A circle touches the sides of a quadrilateral ABCD at P,Q,R,S respectively. Show that the angles subtended at the centre by a pair of opposite sides are supplementary.**