Chapter 11

ASSIGNMENT

SUBEJCTIVE EXCERCISE -11.1

1. Draw a circle of radius 2.5 cm. Take a point P on it. Draw a tangent to the circle at the point P.

2. From a point P on the circle of radius 4 cm, draw a tangent to the circle without using the centre. Also, write steps of construction.

3. Draw a circle of radius 3.5 cm. Take a point P on it. Draw a tangent to the circle at the point P, without using the centre of the circle.

4. Draw a circle of radius 3 cm. Take a point P at a distance of 5.6 cm from the centre of the circle. From the point P, draw two tangents to the circle.

5. Draw a circle of radius 4.5 cm. Take point P outside the circle. Without using the centre of the circle, draw two tangents to the circle from the point P.

6. Construct a triangle ABC, similar to a given equilateral triangle PQR with side 5 cm. such that each of its side is 6/7th of the corresponding side of the ΔPQR.

7. Construct a triangle ABC. similar to a given isosceles triangle PQR with QR = 5 cm, PR = PQ = cm, such that each of its side is 5/3 of the corresponding sides of the ΔPQR.

8. Draw a line segment AB = 7 cm. Divide it externally in the ratio of
(i) 3 : 5 (ii) 5 : 3

9. Draw a ΔABC with side BC = 6 cm, AB = 5cm and $\angle$ABC = 60^0. Construct a ΔAB'C' similar to ΔABC such that sides of ΔAB'C' are $\frac{3}{4}$ of the corresponding sides of ΔABC.