CONSTRUCTIONS

TO CONSTRUCT A TANGENT INTO A CIRCLE

EXERCISE

To Construct a Tangent into a Circle

- Q.1 Draw a circle of radius 4.6 cm. Take a point P on it. Construct a tangent to the circle at the point P. Also write the steps of construction.
- Q.2 Draw a circle of radius 3.5 cm. Construct two tangents to it inclined at an angle of 60° to each other.
- Q.3 Draw a circle of radius 4 cm. Mark its centre as O. Mark a point P such that OP = 5 cm. Using ruler and compasses only, construct two tangents from P to the circle.Measure the length of one of them.
- Q.4 Draw a circle of diameter 8 cm. From a point P, 7 cm away from its centre, construct a pair of tangents to the circle. Measure the lengths of the tangent segments.
- Q.5 Draw a circle of radius 3 cm. Take two points P and Q on one of its extended diameter each at a distance of 7 cm from its centre. Draw tangents to the circle from these two points P and Q.

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- Q.6 Draw a circle with the help of a bangle. Take a point outside the circle. Construct the pair of tangents from this point to the circle.
- Q.7 Draw a circle of diameter 6 cm with centre O. Draw a diameter AOB. Through A or B draw tangent to the circle.
- Q.8 Draw a circle of radius 3 cm. From a point

5 cm away from the centre of the circle, draw two tangents to the circle. Find the length of the tangents.