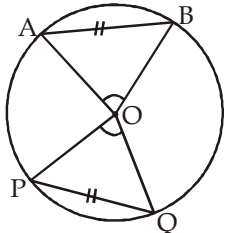
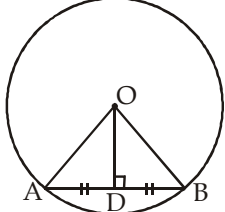
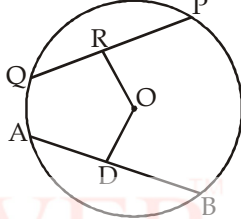
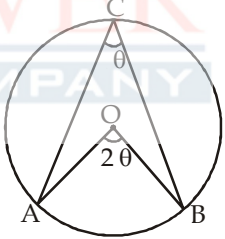
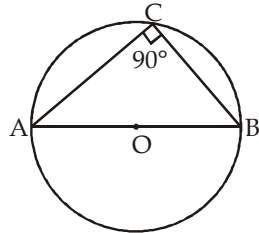
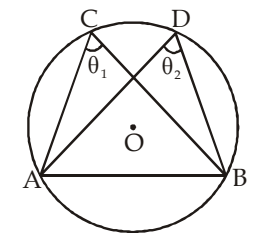
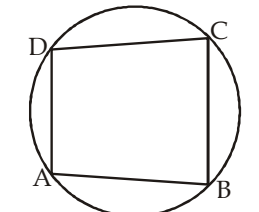
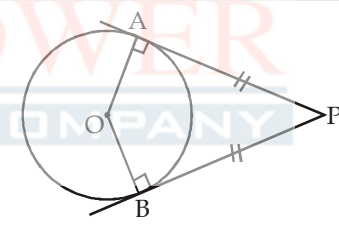
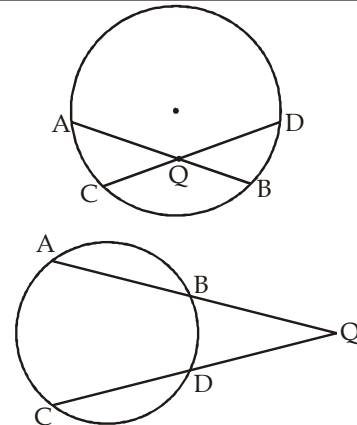
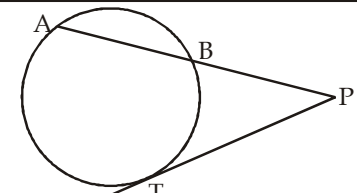
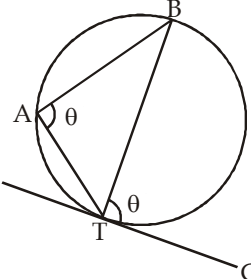
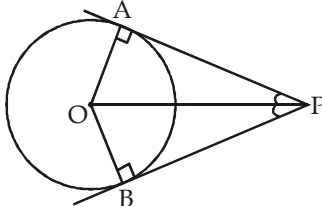


S. No.	Theorem	Diagram
1.	Equal Chords or Arc subtends equal angles at the centre $\widehat{PQ} = \widehat{AB}$ $\angle POQ = \angle AOB$	
2.	The perpendicular from the centre of a circle to a chord bisects the chord $OD \perp AB$ $AB = 2AD = 2BD$	
3.	Equal chords of circle are equidistant from the centre. $AB = PQ$ $OD = OR$	
4.	The angle subtended by an arc at the centre of a circle is twice the angle subtended by the arc at any point on remaining part of the circle $\angle AOB = 2m \angle ACB$	

S. No.	Theorem	Diagram
5.	Angle in a semicircle is a right angle	
6.	Angles in the same segment of a circle are equal $\angle ACB = \angle ADB$ $\theta_1 = \theta_2$	
7.	The sum pair of opposite angles of a cyclic quadrilateral is $180^\circ$ . $\angle DAB + \angle BCD = 180^\circ$ $\angle ABC + \angle CDA = 180^\circ$	
8.	The length of two tangents drawn from an external point to a circle are equal i.e. $AP = BP$	
9.	If two chords AB and CD of a circle, intersect inside a circle or outside a circle when when produced to a point Q, then $AQ \times BQ = CQ \times DQ$ .	
10.	When a chord AB is produced to meet a tangent PT at external point P then $PA \cdot PB = (PT)^2$	

S. No.	Theorem	Diagram
11.	<p><b>Alternate segment Theorem</b> → when a tangent is drawn from point of contact of chord AB, then angle between chord and tangent will be equal to the Angle formed by the chord at the alternate segment. <math>\angle BTC = \angle TAB</math></p>	
12.	<p>The Angle formed by two tangents meeting at an external point is bisected by a straight line joining the centre of the circle to that external point  <math>\angle BPO = \angle APO</math>  <math>\angle POB = \angle POA</math></p>	
13.	<p>When two tangents meet externally at point P and touch circle at A and B then PO is perpendicular bisector of AB  <math>PO \perp AB</math> and <math>AM = BM</math></p>	