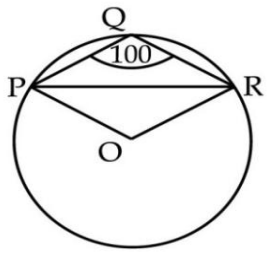
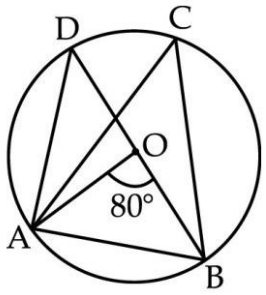
Class 09 Chapter – Circle CBSE Test Paper – 02

1.Q. In figure < PQR = 100^0, where P, Q and R are points on a circle with centre O. Find < OPR

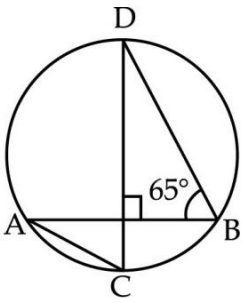


2. Q. Two equal chords of a circle intersect within the circle. Prove that the line joining their point of intersection to the centre makes equal angles with the chords.

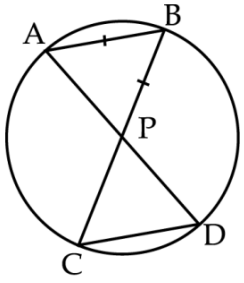
3.Q. In fig, O is the centre of the circle. If < AOB = 80^0 then find the measures of <ADB and <ACB.



4. Q. In adjacent Fig., two chords AB and CD of a circle intersect at right angle. If <ABD =65^0 , find the measure of <CAB.



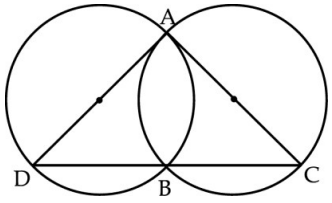
5.Q. In the figure, AB = BP prove that DP= DC.



6. Q. Prove that equal chords of a circle subtend equal angles at the centre

7. Q. Prove that the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord

8. Q. In the figure, two circles with diameters AC and AD intersect at two points A and B. Prove that B lies on the line segment DC.



9. Q. If diagonals of a cyclic quadrilateral are diameters of the circle and perpendicular to each other, prove that it is a square

10. Q. Find the length of a chord of a circle which is at a distance of 4 cm from the centre of the circle with radius 5 cm.

11. Q. Prove that of all chord of circle through a given point within it, the least is one which is bisected at the point.

Three marks Questions

12. Q. The bisectors of the angle formed by producing opposite sides of a cyclic quadrilateral intersect at right angle.

13. Q. Bisectors of angle A,B and C of triangle ABC intersect its circumcircle at D, E, and F respectively . Prove that the angle of triangle DEF are 90 - <A/2 , 90 - <B/2 and 90 - <C/2

14. Q. In figure ABCD is a cyclic quadrilateral in which AB is extended till F and BE II DC. If <FBE = $20^0$and <DAB = 95^0, then find <ADC.