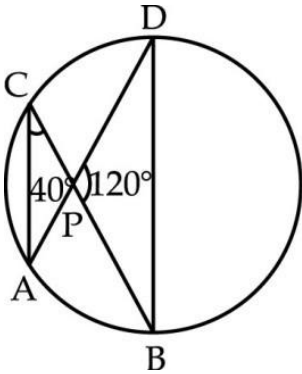


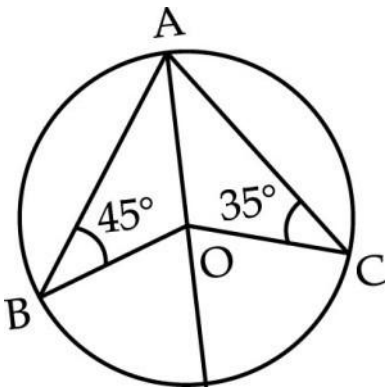
Class 09 Chapter – Circle CBSE Test Paper – 01

One mark Questions

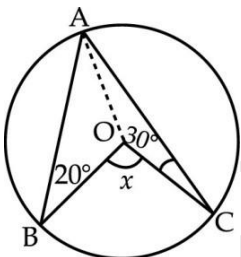
1. Q. In the figure, $\angle ACP = 40^\circ$ and $\angle BPD = 120^\circ$. Then find $\angle CBD$



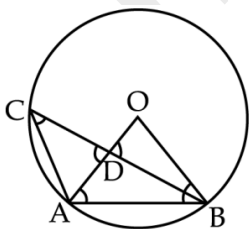
2. Q. In the given fig O is centre of circle, $\angle ACO = 35^\circ$ and $\angle ABO = 45^\circ$, then what is the value of $\angle BOC$



3. Q. In the figure 'O' is the centre of the circle, $\angle ABO = 20^\circ$ and $\angle ACO = 30^\circ$ where A, B, C are points on the circle. Find the value of x.

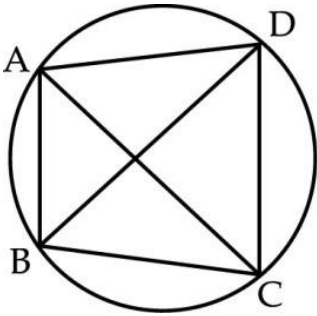


4. Q. $\angle ADB = 90^\circ$ and $\angle ABC = 30^\circ$ then find the value of $\angle CAO$ is



Two marks Questions

5. Q. ABCD is a cyclic quadrilateral in which AC and BD are its diagonals. If $\angle DBC = 55^\circ$ and $\angle BAC = 45^\circ$, find $\angle BCD$.



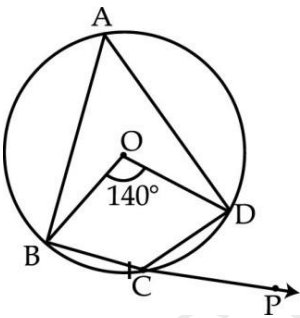
6. Q. Prove that if chords of congruent circles subtend equal angles at their centres, then the chords are equal.

7. Q. Suppose you are given a circle. Give a construction to find its centre

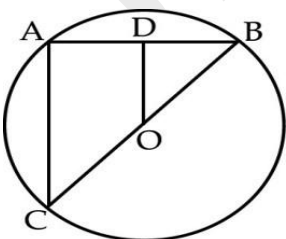
8. Q. Prove that the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

9. Q. Prove that equal chords subtend equal angles at the centre.

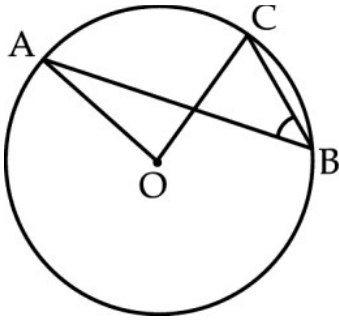
10. Q. In the figure, O is the centre of the circle Arc BCD subtends an angle of 140° at the centre. BC is produced to P and CD is joined. Find measure of $\angle DCP$.



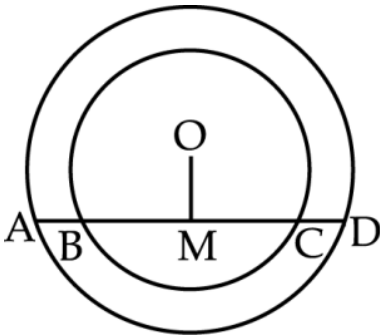
11. Q. OD is perpendicular to chord AB of a circle whose centre is O. If BC is a diameter, prove that $CA = 2 OD$



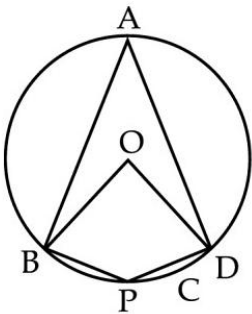
12. Q. In the figure O is the centre of the circle and $\angle ABC = 45^\circ$. Show that $OA \perp OC$



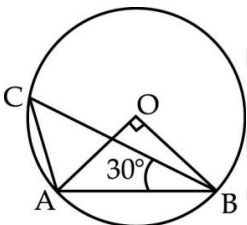
13. Q. Two concentric circles are with center O. ABCD are the points of intersection with a line. If $AD = 12$ cm and $BC = 8$ cm find the length of AB, CD, AC and BD



Q. ABCD is a cyclic quadrilateral. O is the center of the circle if $\angle BOD = 160$ find $\angle BPD$



14. Q. In the figure, $\angle AOB = 90^\circ$ and $\angle ABC = 30^\circ$, then find the measure of $\angle CAO$



15. Q. If two equal chords of a circle intersect within the circle; prove that the segments of one chord are equal to corresponding segments of the other chord