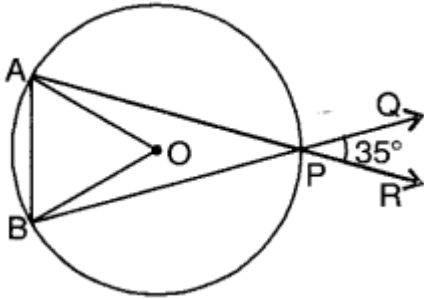
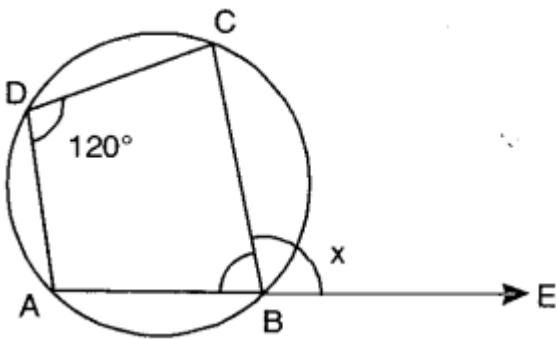


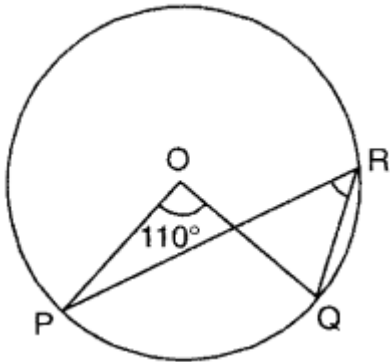
1. In the given figure, O is the centre of the circle with chords AP and BP being produced to R and Q respectively. If $\angle QPR = 35^\circ$, find the measure of $\angle AOB$. [CBSE-14-17DIG1U]



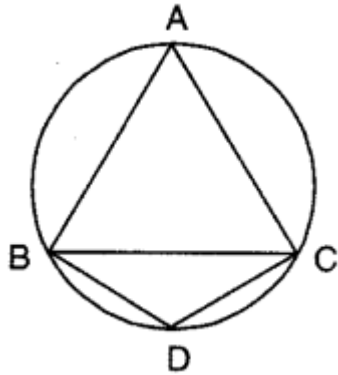
2. In the given figure, what is the measure of angle x ?



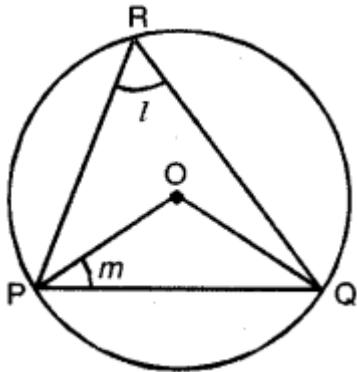
3. In the given figure, if O is the centre of circle and $\angle POQ = 110^\circ$, then find $\angle PRQ$



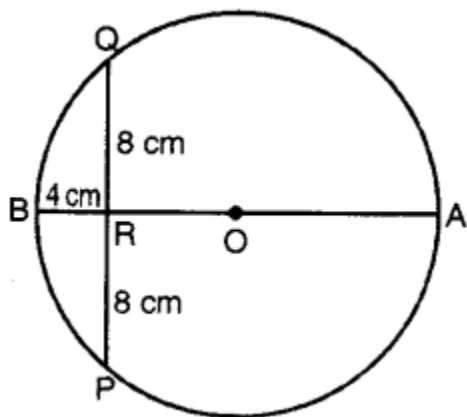
4. In the given figure, ΔABC is an equilateral triangle and $ABDC$ is a cyclic quadrilateral, then find the measure of $\angle BDC$.



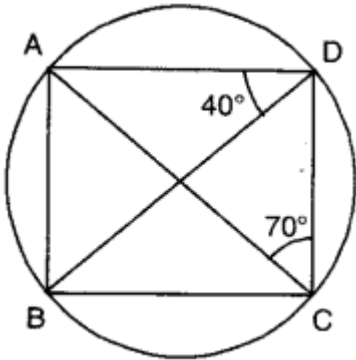
5. In the given figure, O is the centre of the circle. PQ is a chord of the circle and R is any point on the circle. If $\angle PRQ = l$ and $\angle OPQ = m$, then find $l + m$.



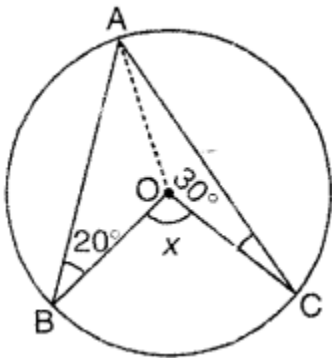
6. The given figure shows a circle with centre O in which a diameter AB bisects the chord PQ at the point R . If $PR = RQ = 8$ cm and $RB = 4$ cm, then find the radius of the circle.



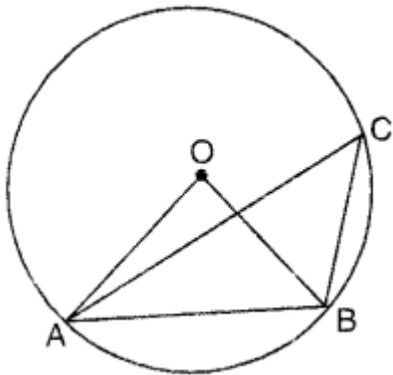
7. In the given figure, ABCD is a cyclic quadrilateral such that $\angle ADB = 40^\circ$ and $\angle DCA = 70^\circ$, then find the measure of $\angle DAB$.



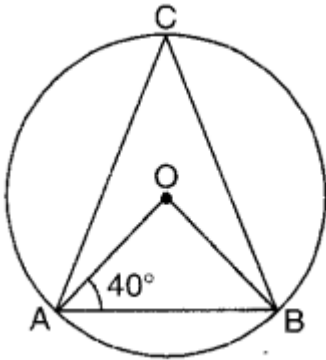
8. In the figure, 'O' is the centre of the circle, $\angle ABO = 20^\circ$ and $\angle ACO = 30^\circ$, where A, B, C are points on the circle. What is the value of x?



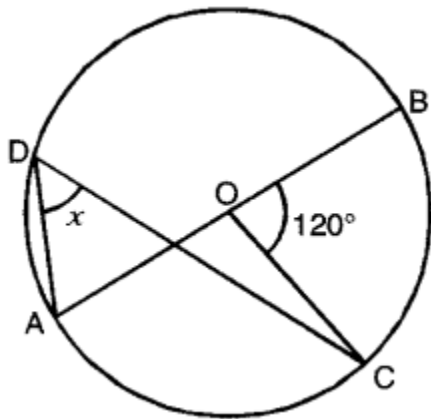
9. In the given figure, if O is the centre of circle. Chord AB is equal to radius of the circle, then find $\angle ACB$.



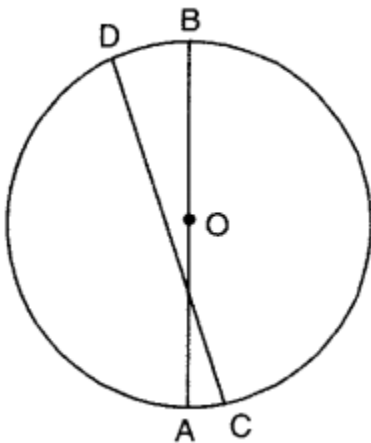
10. In the given figure, if $\angle OAB = 40^\circ$, then find the measure of $\angle ACB$. [NCERT Exemplar Problem]



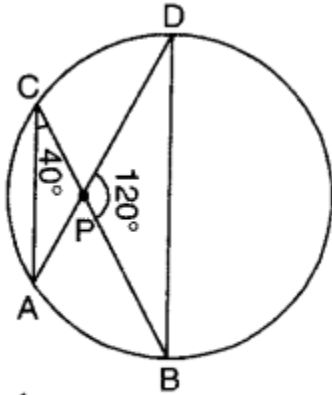
11. In the given figure, O is the centre of the circle. If $\angle BOC = 120^\circ$, then find the value of x .



12. In the given figure, O is the centre of the circle, then compare the chords.

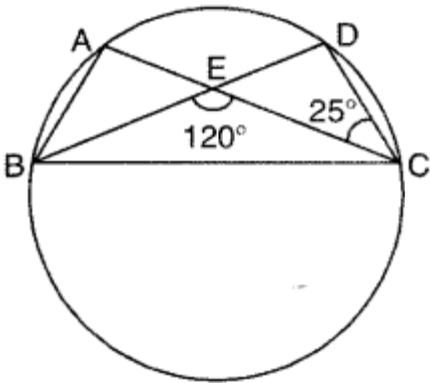


13. In the given figure, $\angle ACP = 40^\circ$ and $\angle BPD = 120^\circ$, then find $\angle CBD$.



[angle in same segment]

14. In the given figure, if $\angle SEC = 120^\circ$, $\angle DCE = 25^\circ$, then find $\angle BAC$.



15. AD is a diameter of a circle and AB is a chord. If $AD = 34$ cm, $AB = 30$ cm, then find the distance of AB from the centre of the circle. [CBSE March 2012]

