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SERIES - 1

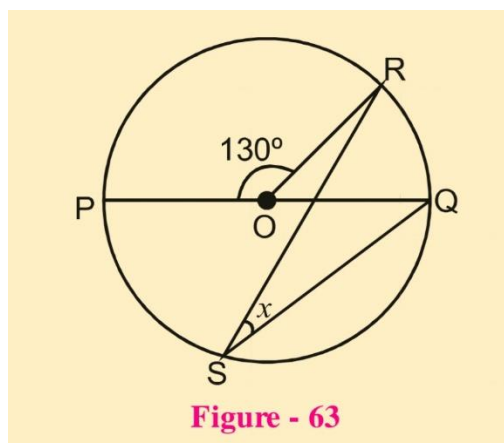
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Important Questions
for Chhattisgarh
Board Exam ‘2021’

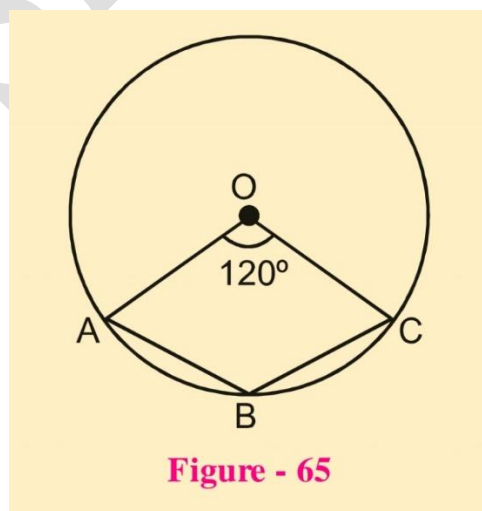
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Class – 10th**Subject – Mathematics****“Circles And Tangents”****‘4’ Marks Questions.**

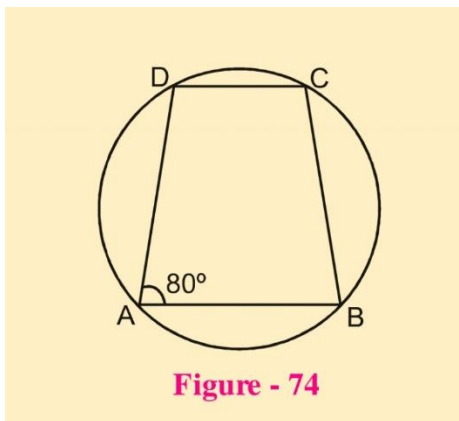
1. Find the length of the chord of the circle, if radius = 13cm and distance of chord from center = 12cm.
2. If O is the center of circle find the value of x .



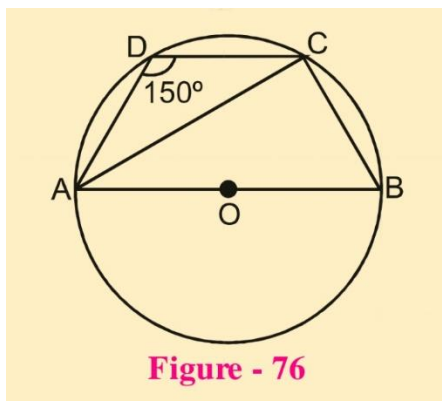
3. Find the value of $\angle ABC$ in figure.



4. If $AB \parallel CD$ in give figure. If $\angle DAB = 80^\circ$ then find the remaining interior angles of the quadrilateral.



5. ABCD is a cyclic quadrilateral in given figure whose side AB is the diameter of the circle. If $\angle ADC = 150^\circ$ then find $\angle BAC$.



6. From a point P, which is at distance 10 cm from the center of the circle, The length of tangent segment is 8cm. Find the radius of the circle.
7. If radius of a circle is 5cm then find the length of a chord which is 3cm away from the center.
8. A chord which is 24cm long is 5cm away from center of the circle. Find the diameter of the circle.
9. In figure, $PA = 4\text{cm}$ and $PB = 9\text{cm}$ then find the length of PT.

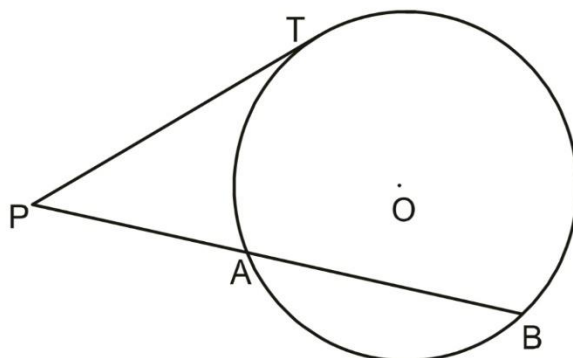


Figure - 99

'5' Marks Questions

1. Two parallel chords which are 10cm and 24cm long respectively lie on opposite sides of center of a circle. The distance between chords is 17 cm. find the diameter of the circle.
2. Radius of a circle is 20cm difference between two equal and parallel chords is 24cm. Find the length of the chords.
3. The angle subtended by an arc at the center is double (twice) the angle subtended by it at any point on the remaining circumference of the circle. Prove.
4. The sum of either pair of opposite angles of a cyclic quadrilateral is 180° . Prove.
5. The lengths of tangents drawn from an external point to a circle are equal. Prove.
6. Prove that the intercept of a tangent between two parallel tangents to a circle subtends a right at the center.