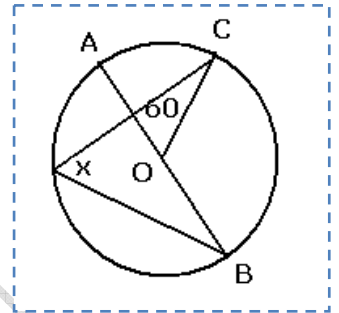


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Class X chapter circles

1. The angle subtended by an arc of a circle at the center is double the angle subtended by it on any point on the remaining part of the circle. Prove. Using it find x . $3+2 = 5$
2. A, B and C are standing on a circle of radius 25m. A is equidistant from B and C and the distance between A and C is 30m. Find BC. 5
3. Prove quadrilateral formed by the bisectors of interior angles of a quadrilateral is cyclic. 3
4. AB and CD are two parallel chords of a circle which are on opposite sides of the centre such that $AB = 10\text{cm}$ and $CD = 24\text{cm}$ and the distance between them is 17cm. Find radius. 5
5. Two chords intersect inside the circle. Prove respective parts of a chord are equal to corresponding parts of other chord. 3
6. A line intersects bigger of the two concentric circles at A and D and smaller at B and C. Prove $AB = CD$. 3



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