



# INDIAN SCHOOL NIZWA - WORKSHEET

## MATHEMATICS

### CH:10 Circles

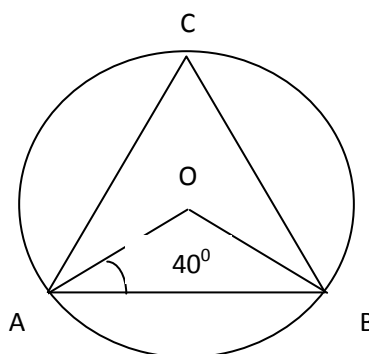
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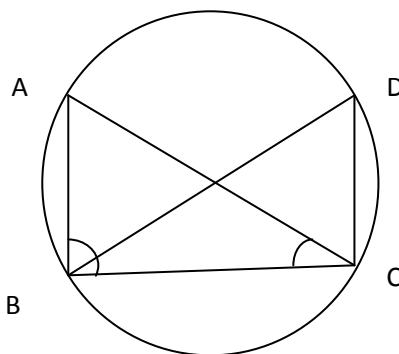
Class: IX Sec: \_\_\_\_

1. A chord of a circle is equal to its radius. Find the angle subtended by this chord at a point in major segment.

2. If  $\angle OAB = 40^\circ$ , then find  $\angle ACB$ .



3. In the figure,  $\angle ABC = 79^\circ$ ,  $\angle ACB = 41^\circ$  then what is the measure of  $\angle BDC$ ?



4. If the diagonals of a cyclic quadrilateral are diameters of the circle through the vertices of quadrilateral, prove that it is a rectangle.

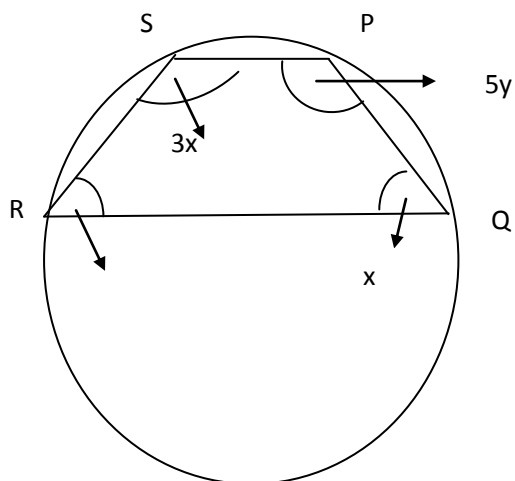
5. Prove that the quadrilateral formed by the internal angle bisectors of any quadrilateral is cyclic.

6. 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.

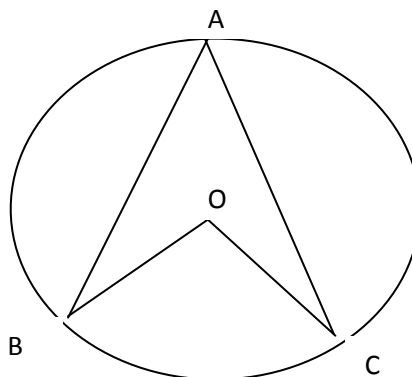


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7. PQRS is a cyclic quadrilateral, find measure of each of its angles.



3. In the adjoining figure, O is the centre of the circle. If  $\angle A = 50^\circ$ , Find  $\angle BOC$  also find reflex of  $\angle BOC$ .



4. In the adjoining figure, O is the centre of the circle. If  $\angle AOC = 110^\circ$ . Find  $\angle B$ ,  $\angle BCO$ ,  $\angle D$  and Reflex of  $\angle AOC$ .

