

Mathematics

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(Chapter -9) (Circles) (Exercise 9.3)

(Class - 9)

Question 1:

In Figure, A, B and C are three points on a circle with centre O such that $\angle BOC = 30^\circ$ and $\angle AOB = 60^\circ$. If D is a point on the circle other than the arc ABC, find $\angle ADC$.

Answer 1:

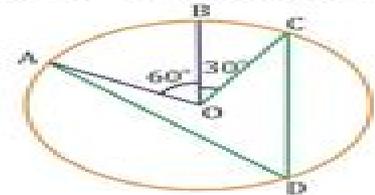
$$\angle AOC = \angle AOB + \angle BOC = 60^\circ + 30^\circ = 90^\circ$$

$$\angle AOC = 2\angle ADC$$

[∵ The angle subtended by an arc at the centre is double the angle subtended by it at any]

$$\Rightarrow \angle ADC = \frac{1}{2}\angle AOC$$

$$\Rightarrow \angle ADC = \frac{1}{2} \times 90^\circ = 45^\circ$$



Question 2:

A chord of a circle is equal to the radius of the circle. Find the angle subtended by the chord at a point on the minor arc and also at a point on the major arc.

Answer 2:

Given: In circle C (O, r), OA = AB.

To find: $\angle ADB$ and $\angle ACB$.

Solution: In $\triangle OAB$

$$OA = AB$$

$$OA = OB$$

Hence, $OA = OB = AB$

$\Rightarrow \triangle OAB$ is an equilateral triangle.

Therefore, $\angle AOB = 60^\circ$

[∵ Each angle of an equilateral triangle is 60°]

$$\angle AOB = 2\angle ADB$$

$$\Rightarrow \angle ADB = \frac{1}{2}\angle AOB \Rightarrow \angle ADB = \frac{1}{2} \times 60^\circ = 30^\circ$$

ACBD is a cyclic quadrilateral.

$$\text{Therefore, } \angle ACB + \angle ADB = 180^\circ$$

$$\Rightarrow \angle ACB + 30^\circ = 180^\circ$$

$$\Rightarrow \angle ACB = 180^\circ - 30^\circ = 150^\circ$$

[∵ Given]

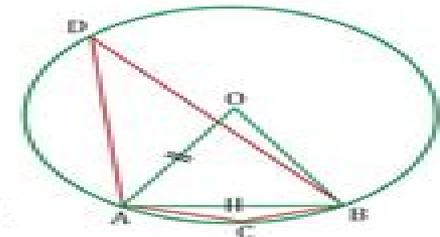
[∵ Radii of circle]

[∵ Each angle of an equilateral

[∵ The angle subtended by an arc at the centre is double the angle subtended by it at any]

[∵ The sum of either pair of opposite angles of a cyclic quadrilateral is 180° .]

[∵ $\angle ADB = 30^\circ$]



Question 3:

In Figure, $\angle PQR = 100^\circ$, where P, Q and R are points on a circle with centre O. Find $\angle OPR$.

Answer 3:

Construction: Join PS and RS.

PQRS is a cyclic quadrilateral.

Therefore, $\angle PSR + \angle PQR = 180^\circ$

[∵ The sum of either pair of opposite angles of a cyclic quadrilateral is 180° .]

$$\Rightarrow \angle PSR + 100^\circ = 180^\circ$$

$$\Rightarrow \angle PSR = 180^\circ - 100^\circ = 80^\circ$$

Here, $\angle POR = 2\angle PSR$

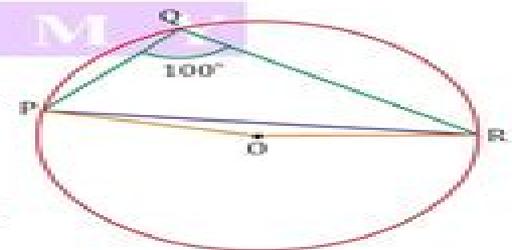
[∵ The angle subtended by an arc at the centre is double the angle subtended by it at any]

$$\Rightarrow \angle POR = 2 \times 80^\circ = 160^\circ$$

In $\triangle OPR$, $OP = OR$

[∵ $\angle PQR = 100^\circ$]

[∵ Radii of circle]



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