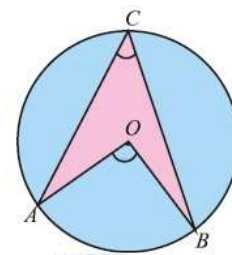


# Unit 12 Angle in a Segment of a Circle

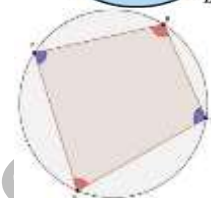
**Q: Define central angle.**

A central angle is subtended by two radii at the center of the circle. In figure,  $\angle AOB$  is the central angle of a circle.



**Q: Define circumangle.**

A circumangle is subtended between any two chords of a circle, having common point on its circumference. In the figure  $\angle ACB$  is the circumangle.



**Q: Define cyclic quadrilateral.**

A quadrilateral is called cyclic when a circle can be drawn through its four vertices.

**Q: Define in-center.**

Incentre of a triangle is the centre of a circle inscribed in a triangle.

**Q: Define chord of a circle.**

The line segment joining any two points on the circumference of a circle is called Chord. In figure  $\overline{AB}$  is a Chord.

