

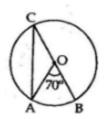
Exercise 11B

Question 2:

(i)

The angle subtended by an arc of a circle at the centre is double the angle subtended by the arc at any point on the circumference.

$$\Rightarrow$$
 $\angle OCA = \frac{70}{2} = 35^{\circ}$ [: $\angle AOB = 70^{\circ}$]



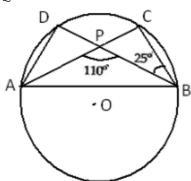
(ii) The radius of the circle is

$$OA = OC$$

base angles of an

isosceles triangle are equal

Question 3:



It is clear that ∠ACB=∠PCB

Consider the triangle △PCB.

Applying the angle sum property, we have,

$$\angle PCB = 180^{\circ} - (\angle BPC + \angle PBC)$$

linear pair; ∠PBC = 25°, given]

$$= 180^{\circ} - (70^{\circ} + 25^{\circ})$$

Angles in the same segment of a cirice are equal.