

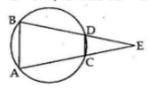
Exercise 11C

Question 28:

Given: AB and CD are two parallel chords of a circle BDE and ACE are straight lines which intersect at E.

If one side of a cyclic quadrilateral is produced then the exterior angle is equal to the interior opposite angle.

∴ Ext∠EDC = ∠A and, Ext∠DCE = ∠B



Also, AB | CD

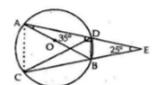
 \Rightarrow $\angle EDC = \angle B$ and $\angle DCE = \angle A$ \therefore $\angle A = \angle B$

∴ Δ AEB is isosceles.

Question 29:

AB is a diameter of a circle with centre O. ADE and CBE are straight lines, meeting at E, such that \(\text{BAD} = 35^\circ\) and \(\text{BED} = 25^\circ\).

Join BD and AC.



********** END ********