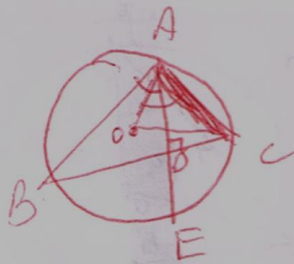


3.5
4

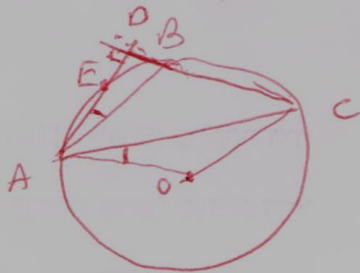


$$\angle O = 2\angle B$$

$$\angle ACO = \angle OAC = \frac{180 - 2\angle B}{2} = 90 - \angle B$$

$$\angle BAE = 90 - \angle B$$

$$\angle BAE = \angle DCE \quad (\text{BE \& AOE})$$



$$\triangle AOB: \angle B = \alpha$$

$$\angle BAD = 90 - \alpha$$

$$\triangle ABC: \angle ABC = 180 - \alpha$$

$$\angle AOC = 360 - 2\alpha$$

$$\angle AOC = 2\alpha$$

$$\Rightarrow \angle CAO = \angle ACO = 90 - \alpha$$

$$\angle EAB = \angle DCE \quad (\text{BE \& AOE})$$