

CBSE HOTS class ix, Circles 3 Solution by Dev Anoop (Bathinda)

In  $\triangle OAD$

$$\angle B = \angle D = 60^\circ$$

$$\Rightarrow OA = DA \dots \textcircled{\text{III}}$$

[converse of  
isosceles  $\triangle$   
property]

$$\text{Sim. } OC = DC \dots \textcircled{\text{IV}}$$

From  $\textcircled{\text{III}}$ ,  $\textcircled{\text{IV}}$

$$OC = DA$$

$\therefore PA$  bisects  $DC$

CBSE HOTS class ix, Circles 3 Solution by Dev Anoop (Bathinda)