

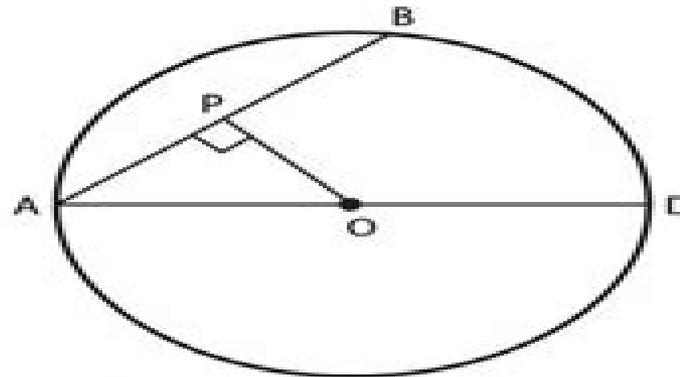
EXERCISE 10.1

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1. AD is a diameter of a circle and AB is a chord. If AD = 34 cm, AB = 30 cm, the distance of AB from the centre of the circle is :

- (A) 17 cm
- (B) 15 cm
- (C) 4 cm
- (D) 8 cm

Solution:



(D) 8 cm

Explanation:

Given: Diameter of the circle = $d = AD = 34$ cm

\therefore Radius of the circle = $r = d/2 = AO = 17$ cm

Length of chord $AB = 30$ cm

Since the line drawn through the center of a circle to bisect a chord is perpendicular to the chord, therefore AOP is a right angled triangle with L as the bisector of AB .

$\therefore AP = 1/2(AB) = 15$ cm

In right angled triangle AOB , by Pythagoras theorem, we have:

$$(AO)^2 = (OP)^2 + (AP)^2$$

$$\Rightarrow (17)^2 = (OP)^2 + (15)^2$$

$$\Rightarrow (OP)^2 = (17)^2 - (15)^2$$

$$\Rightarrow (OP)^2 = 289 - 225$$

$$\Rightarrow (OP)^2 = 64$$

Take square root on both sides:

$$\Rightarrow (OP) = 8$$

\therefore The distance of AB from the center of the circle is 8 cm.

Hence, option D is the correct answer.

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Léo Pomar



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