

Class 11 Conic Sections

Q.1) Find the equation of a circle of radius 5 whose centre lies on X - axis and passes through the point $(2,3)$.

Sol.1) Let the centre of circle is $A(h, 0)$

Clearly, $AB = \text{radius}$

$$\Rightarrow AB = 5$$

$$\Rightarrow \sqrt{(h-2)^2 + 9} = 5$$

$$\Rightarrow (h-2)^2 + 9 = 25$$

$$\Rightarrow h^2 - 4h + 4 + 9 = 25$$

$$\Rightarrow h^2 - 4h - 12 = 0$$

$$\Rightarrow (h-6)(h+2) = 0$$

$$\Rightarrow h = 6 \text{ and } h = -2$$

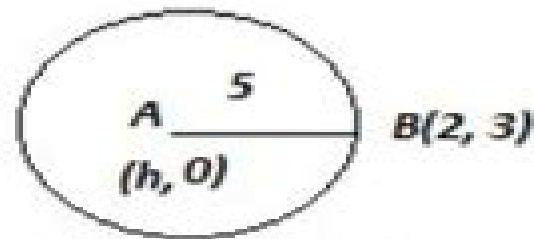
$\therefore$ coordinates of centre are $(6, 0)$ and $(-2, 0)$

$\therefore$ equations of the required circle are

$$(x-6)^2 + (y-0)^2 = 25$$

$$\Rightarrow x^2 + y^2 - 12x + 36 = 25$$

$$\Rightarrow x^2 + y^2 - 12x + 11 = 0 \quad \text{ans.}$$



Q.2) Find the equation of the circle which passes through the origin & cuts off intercepts ' a ' and ' b ' on the coordinate axis.

Sol.2) $OA = a$ and $OB = b$ (given)

$$\Rightarrow OC = \frac{a}{2} \text{ and } OD = \frac{b}{2}$$

$$\therefore h = \frac{a}{2} \text{ and } k = \frac{b}{2}$$

$\therefore$ centre of circle is $\left(\frac{a}{2}, \frac{b}{2}\right)$

Now, $OE = r(\text{radius})$

$$\Rightarrow \sqrt{\frac{a^2}{4} + \frac{b^2}{4}} = r \quad \text{----- (By Pythagoras)}$$

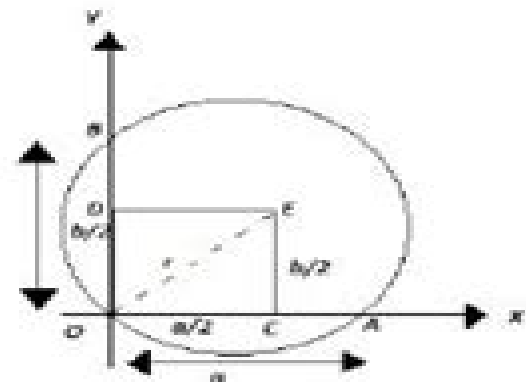
$$\Rightarrow r^2 = \frac{a^2}{4} + \frac{b^2}{4}$$

Now, equation of circle is given by

$$\Rightarrow (x-h)^2 + (y-k)^2 = r^2$$

$$\Rightarrow \left(x - \frac{a}{2}\right)^2 + \left(y - \frac{b}{2}\right)^2 = r^2$$

$$\Rightarrow x^2 + \frac{a^2}{4} - ax + y^2 + \frac{b^2}{4} - by = \frac{a^2}{4} + \frac{b^2}{4}$$



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