

# CBSE - Class 10<sup>th</sup> maths paper Solution - 2018

1) Given  $x = 3$

$$P(x) = x^2 - 2Kx - 6 \quad \text{--- (1)}$$

But  $x = 3$  in eq<sup>n</sup>  $P(x) = 0$

$$P(3) = (3)^2 - 2K(3) - 6 = 0$$

$$\Rightarrow 9 - 6K - 6 = 0$$

$$3 - 6K = 0$$

$$3 = 6K$$

$$\Rightarrow \frac{3}{6} = K$$

$$\Rightarrow \boxed{K = \frac{1}{2}}$$

2) Smallest prime no = 2  
 " Composite no = 4

$$\begin{aligned} 2 &= (2) \times 1 \\ 4 &= (2) \times 2 \end{aligned}$$

$$HCF = 2$$

3)

$$\begin{aligned} OP &= \sqrt{(x-0)^2 + (y-0)^2} \\ &= \sqrt{x^2 + y^2} \end{aligned}$$

$$\begin{array}{c|c} & P(x, y) \\ \hline (0, 0) & \end{array}$$

4)

$$d = -4 \quad a_7 = 4 \quad n = 7$$

$$a_n = a + (n-1)d$$

$$4 = a + (7-1)(-4)$$

$$4 = a + 6 \times (-4)$$

$$4 = a - 24$$

$$\Rightarrow 4 + 24 = a$$

$$\Rightarrow a = 28$$

# Pixel Past Papers March 2012 Maths

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