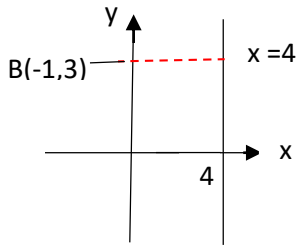
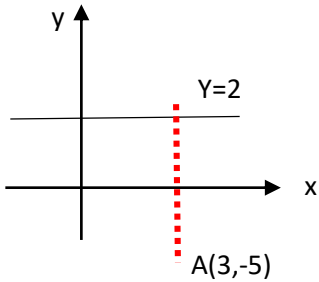


Distance between Point and Line

(I)



Distance between B(-1,3) and $x = 4$ is $D = 1+4=5$

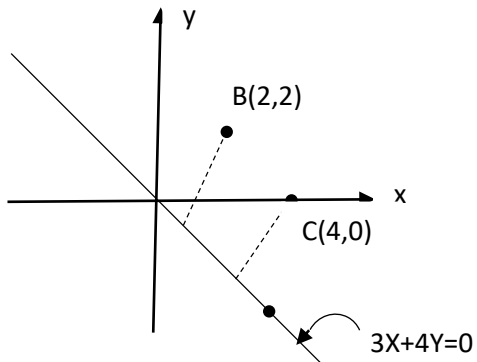


$$D = 5 + 2 = 7$$

(II)

$3x + 4y = 0$ is a line

$$\frac{3x+4y}{\sqrt{3^2+4^2}} = 0 \text{ is the same equation}$$



$$C(4,0) \rightarrow D = \frac{3 \cdot 4 + 4 \cdot 0}{5} = \frac{12}{5} = 2.4$$

$$B(2,2) \rightarrow D = \frac{3 \cdot 2 + 4 \cdot 2}{5} = \frac{14}{5} = 2.8$$