LINE

11th Maths - EXERCISE-10.2 1

- 1. Passing through the point (-4,
 - 3) with slope $\frac{1}{2}$

$$n^{\top}x = c \tag{9}$$

$$\begin{pmatrix} \frac{1}{2} \\ -1 \end{pmatrix}^{\top} x = -5 \tag{10}$$

SOLUTION 2

$$= x - 2y = -10$$

$$\tag{11}$$

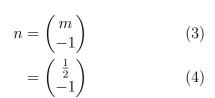
Given points are (-4,3), and slope $m = \implies x - 2y + 10 = 0$ (12)

The line formula in matrix form

$$n^{\top}x = c \tag{1}$$

(2)

Figure 3



$$c = \frac{mx_1 - y_1}{2} \tag{5}$$

$$=2\left(\frac{1}{2}\times -4 - 3\right) \tag{6}$$

$$c = \frac{mx_1 - y_1}{2}$$
 (5)
= $2\left(\frac{1}{2} \times -4 - 3\right)$ (6)
= $\frac{-10}{2}$ (7)

$$= -5 \tag{8}$$

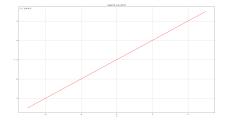


Figure 1: projection vector