

Assignment-2(EE5600)

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EE20MTECH14015

Abstract—This assignment deals with basic linear form.

$$\Rightarrow k = 7 \quad (2.0.3)$$

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Therefore, equation becomes $\begin{pmatrix} 2 & 3 \end{pmatrix} \mathbf{x} = 7$.

<https://github.com/satyam463/EE5600Ass1/blob/main/Assignment2.tex>

1 PROBLEM STATEMENT

1.1 Linearform, Exercise 2, Question No 2

Find the value of k, if $\begin{pmatrix} 2 \\ 1 \end{pmatrix}$ is solution of the equation

$$\begin{pmatrix} 2 & 3 \end{pmatrix} \mathbf{x} = k \quad (1.1.1)$$

2 SOLUTION

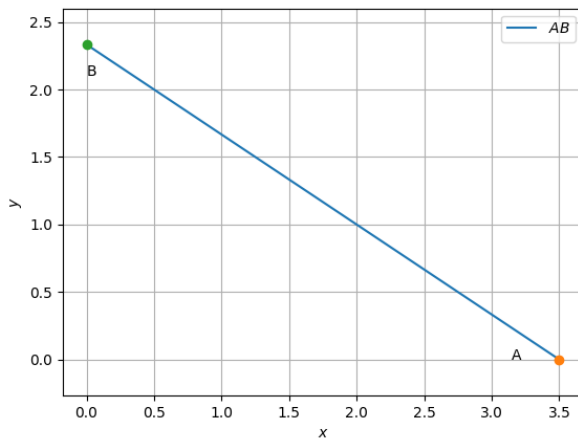


Fig. 0: Line equation $\begin{pmatrix} 2 & 3 \end{pmatrix} \mathbf{x} = 7$

Given:

$$\mathbf{x} = \begin{pmatrix} 2 \\ 1 \end{pmatrix} \quad (2.0.1)$$

substitute (2.0.1) in the equation

$$\begin{pmatrix} 2 & 3 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \end{pmatrix} = k \quad (2.0.2)$$