#### 1

## Assignment-2(*EE*5600)

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Abstract—This assignment deals with basic linear form.

$$\Rightarrow k = 7 \tag{2.0.3}$$

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

Download tex file from

https://github.com/satyam463/EE5600Ass1/blob/main/Ass1.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

$$\begin{pmatrix} 2 & 3 \end{pmatrix} \mathbf{x} = k \tag{1.1.1}$$

#### 2 Solution

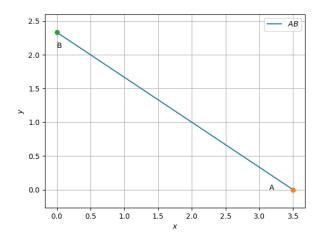


Fig. 0: Line equation  $\begin{pmatrix} 2 & 3 \end{pmatrix} \mathbf{x} = 7$ 

Given:

$$\mathbf{x} = \begin{pmatrix} 2 \\ 1 \end{pmatrix} \tag{2.0.1}$$

substitute (2.0.1) in the equation

$$\begin{pmatrix} 2 & 3 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \end{pmatrix} = k \tag{2.0.2}$$