EE3900-Assignment 2

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Download all latex-tikz codes from

https://github.com/vaishnavi-w/EE3900/blob/main/ Assignment2/latex2.tex

and python codes from

https://github.com/vaishnavi-w/EE3900/blob/main/ Assignment2/codes/code2.tex

2 Solution

$$3\mathbf{A} = 3 \begin{pmatrix} \frac{2}{3} & 1 & \frac{5}{3} \\ \frac{1}{3} & \frac{2}{3} & \frac{4}{3} \\ \frac{7}{3} & 2 & \frac{2}{3} \end{pmatrix} = \begin{pmatrix} 2 & 3 & 5 \\ 1 & 2 & 4 \\ 7 & 6 & 2 \end{pmatrix}$$
 (2.0.1)

$$5\mathbf{B} = 5 \begin{pmatrix} \frac{2}{5} & \frac{3}{5} & 1\\ \frac{1}{5} & \frac{2}{5} & \frac{4}{5}\\ \frac{7}{5} & \frac{6}{5} & \frac{2}{5} \end{pmatrix} = \begin{pmatrix} 2 & 3 & 5\\ 1 & 2 & 4\\ 7 & 6 & 2 \end{pmatrix}$$
 (2.0.2)

$$3\mathbf{A} - 5\mathbf{B} = \begin{pmatrix} 2 & 3 & 5 \\ 1 & 2 & 4 \\ 7 & 6 & 2 \end{pmatrix} - \begin{pmatrix} 2 & 3 & 5 \\ 1 & 2 & 4 \\ 7 & 6 & 2 \end{pmatrix} \tag{2.0.3}$$

$$\implies 3\mathbf{A} - 5\mathbf{B} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix} \tag{2.0.4}$$