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ASSIGNMENT 2

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Download latex-tikz codes from

https://github.com/Dishank422/EE3900/blob/main/assignment2/Assignment2.tex

Find x and y if
$$2\begin{pmatrix} 1 & 3 \\ 0 & x \end{pmatrix} + \begin{pmatrix} y & 0 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 5 & 6 \\ 1 & 8 \end{pmatrix}$$

2 Solution

$$2\begin{pmatrix} 1 & 3 \\ 0 & x \end{pmatrix} + \begin{pmatrix} y & 0 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 5 & 6 \\ 1 & 8 \end{pmatrix}$$
 (2.0.1)

$$\implies \begin{pmatrix} 2 & 6 \\ 0 & 2x \end{pmatrix} + \begin{pmatrix} y & 0 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 5 & 6 \\ 1 & 8 \end{pmatrix} \tag{2.0.2}$$

$$\implies \begin{pmatrix} 2+y & 6+0 \\ 0+1 & 2x+2 \end{pmatrix} = \begin{pmatrix} 5 & 6 \\ 1 & 8 \end{pmatrix} \tag{2.0.3}$$

$$\implies$$
 2 + y = 5, 2x + 2 = 8 (2.0.4)

$$\implies$$
 y = 3, x = 3 (2.0.5)