Homework 2.6: Section 1, 2, 3, 4, 5, 7

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Homework

1.

$$y = \begin{bmatrix} -7 \\ -2 \\ 6 \end{bmatrix} \quad x = \begin{bmatrix} 3 \\ 4 \\ -6 \end{bmatrix}$$

2.

$$\begin{bmatrix} 37.03 \\ 38.89 \\ 16.67 \end{bmatrix}$$

3.

$$y = \begin{bmatrix} 6 \\ 12 \\ 0 \end{bmatrix} \quad x = \begin{bmatrix} -5 \\ -4 \\ 0 \end{bmatrix}$$

4.

$$\begin{bmatrix} 81.48 \\ 55.56 \\ 33.33 \end{bmatrix}$$

5.

$$y = \begin{bmatrix} 1 \\ 3 \\ 1 \\ -4 \end{bmatrix} \quad x = \begin{bmatrix} 38 \\ 16 \\ 8.5 \\ -4 \end{bmatrix}$$

7.

$$LU = \begin{bmatrix} 2 & 5 \\ 0 & \frac{7}{2} \end{bmatrix} \begin{bmatrix} 1 & 0 \\ -\frac{3}{2} & 1 \end{bmatrix}$$