

$$Ux = 7 \rightarrow \begin{bmatrix} -5 & 1 & 1 \\ 0 & 1/5 & 17/5 \\ 0 & 0 & 20/11 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 2 \\ 11/5 \\ -2 \end{bmatrix}$$

$$x_3 = -2 \cdot \frac{11}{20} = \boxed{-\frac{11}{10} = x_3}$$

$$\left. \begin{array}{l} 1 \\ 2 \end{array} \right\} \frac{11}{5} x_2 + \frac{27}{5} x_3 = \frac{11}{5}$$

$$x_2 = \left(\frac{11}{5} - \frac{27}{5} \cdot \left(-\frac{11}{10} \right) \right) = \boxed{3.7 = x_2}$$

$$-5x_1 - 2x_2 - x_3 = 2$$

$$x_1 = 2 - 2 \cdot 3.7 + \left(-\frac{11}{10} \right)$$

$$= 2 - 7.4 - \frac{11}{10} = \boxed{-6.5 = x_1}$$

$$= \boxed{\frac{11}{5} = x_2}$$

$$\begin{bmatrix} -5 & 1 & 1 \\ 0 & 1/5 & 17/5 \\ 0 & 0 & 20/11 \end{bmatrix} \begin{bmatrix} -6.5 \\ 3.7 \\ -11/10 \end{bmatrix} = \begin{bmatrix} 2 \\ 11/5 \\ -2 \end{bmatrix}$$

$$-5 \cdot (-6.5) + 2 \cdot 3.7 + \left(-\frac{11}{10} \right) =$$