$$\begin{cases} x_1 + 2x_3 + x_5 = 2 \\ -x_1 + x_2 - x_3 + x_4 = -1 \\ x_1 - x_2 + x_3 + 2x_5 = 2 \\ -x_1 + 2x_2 + x_4 - x_5 = -1 \end{cases}$$

Total matrix

$$\begin{matrix} -1 \\ 1 \\ 1 \\ 1 \end{matrix} \begin{bmatrix} 1 & 0 & 2 & 0 & 1 & 2 \\ -1 & 1 & -1 & 1 & 0 & -1 \\ 1 & -1 & 1 & 0 & 2 & 2 \\ -1 & 2 & 0 & 1 & -1 & -1 \end{bmatrix}$$

$$\begin{matrix} -2 \\ 1 \\ \\ \end{matrix} \begin{bmatrix} 1 & 0 & 2 & 0 & 1 & 2 \\ 0 & 1 & 1 & 1 & 1 & 1 \\ 0 & -1 & -1 & 0 & 1 & 0 \\ 0 & 2 & 2 & 1 & 0 & 1 \end{bmatrix}$$

$$\begin{matrix} \\ 1 \\ \\ \end{matrix} \begin{bmatrix} 1 & 0 & 2 & 0 & 1 & 2 \\ 0 & 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 2 & 1 \\ 0 & 0 & 0 & -1 & -2 & -1 \end{bmatrix}$$

$$\begin{matrix} \\ \\ -1 \\ \end{matrix} \begin{bmatrix} 1 & 0 & 2 & 0 & 1 & 2 \\ 0 & 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 2 & 0 & 1 & 2 \\ 0 & 1 & 1 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$