$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 2 & -6 & 6 & 4 \\ -3 & 5 & -1 & -2 \end{array}\right] \begin{matrix} \\ \leftarrow -2 \\ \leftarrow 3 \end{matrix}$$

$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & -2 & 4 & 2 \\ 0 & -1 & 2 & 1 \end{array}\right] \begin{matrix} \\ \cdot(-1/2) \\ \leftarrow -1/2 \end{matrix}$$

$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & 1 & -2 & -1 \\ 0 & 0 & 0 & 0 \end{array}\right] \leftarrow \text{entydig lösning finns ej.}$$

$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & 1 & -2 & -1 \\ 0 & 0 & 1 & t \end{array}\right] \begin{matrix} \leftarrow \\ \leftarrow -1 \\ \leftarrow 2 \\ \end{matrix} \quad \text{låt } z = t$$

$$\left[\begin{array}{ccc|c} 1 & -2 & 0 & 1-t \\ 0 & 1 & 0 & 2t-1 \\ 0 & 0 & 1 & t \end{array}\right] \leftarrow 2$$

$$1 - t + 2(2t-1) = 1 - t + 4t - 2 = 3t - 1$$

$$\left[\begin{array}{ccc|c} 1 & 0 & 0 & 3t-1 \\ 0 & 1 & 0 & 2t-1 \\ 0 & 0 & 1 & t \end{array}\right] \Rightarrow \begin{cases} x = 3t-1 \\ y = 2t-1 \\ z = t \end{cases}, \quad t \in \mathbb{R}$$