

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

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

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

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

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

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

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