

$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 2 & -6 & 6 & 2 \\ -3 & 5 & -1 & 3 \end{array} \right] \xrightarrow{\text{R2} - 2\text{R1}} \left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & -2 & 4 & 0 \\ -3 & 5 & -1 & 3 \end{array} \right]$$

$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & -2 & 4 & 0 \\ 0 & -1 & 2 & 6 \end{array} \right] \xrightarrow{\text{R3} \cdot (-1/2)} \left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & -2 & 4 & 0 \\ 0 & 0.5 & -1 & 3 \end{array} \right]$$

$$\left[\begin{array}{ccc|c} 1 & -2 & 1 & 1 \\ 0 & -2 & 4 & 0 \\ 0 & 0 & 0 & 0 \end{array} \right] \xleftarrow{\text{Raden ger att } 0 \cdot z = 0} \text{Finns ingen lösning}$$

\Rightarrow Finns ingen lösning