

$$\left[ \begin{array}{ccc|c} 1 & -2 & 1 & 2 \\ 2 & -6 & 6 & 35 \\ -3 & 5 & 1 & 3 \end{array} \right] \begin{array}{l} \downarrow -2 \\ \leftarrow \end{array} \begin{array}{l} 3 \\ 3 \end{array}$$

$$\left[ \begin{array}{ccc|c} 1 & -2 & 1 & 2 \\ 0 & -2 & 4 & 31 \\ 0 & -1 & 4 & 9 \end{array} \right] \begin{array}{l} \\ \uparrow \end{array}$$

$$\left[ \begin{array}{ccc|c} 1 & -2 & 1 & 2 \\ 0 & -1 & 4 & 9 \\ 0 & -2 & 4 & 31 \end{array} \right] \begin{array}{l} \\ \\ \downarrow -2 \end{array}$$

$$\left[ \begin{array}{ccc|c} 1 & -2 & 1 & 2 \\ 0 & -1 & 4 & 9 \\ 0 & 0 & -4 & -13 \end{array} \right]$$