

$$A = \left(\begin{array}{ccc|cc} 4 & 3 & 5 & 1 & 0 \\ 1 & 4 & 5 & 0 & -1 \\ \hline 1 & 0 & 0 & & \\ 0 & 1 & 0 & & \\ 0 & 0 & 1b & & \end{array} \right) \begin{array}{l} \xrightarrow{-3} \downarrow \\ \xrightarrow{2} \downarrow \\ \xrightarrow{-1} \\ \xleftarrow{+} \end{array}$$

$$A = \left(\begin{array}{ccc|c} 4 & 3 & 5 & 1 \\ 5 & 3 & 5 & 0 \end{array} \right)$$