

Hello Gordon, how are you?

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

I am just very fine, thank you for asking.

$$\left(\begin{array}{cc|c} 1 & 2 & 3 \\ 4 & 5 & 6 \end{array} \right)$$

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Erste Zeile
Zweite Zeile

$$\left(\begin{array}{ccc|cc} 4 & 3 & 5 & 1 & 0 \\ \hline 5 & 3 & 5 & 0 & -1 \\ -1 & 0 & 0 & & \\ 0 & 1 & 0 & & \\ 0 & \sum_{i=1}^n i^2 & 1b & & \end{array} \right) \begin{array}{l} \xrightarrow{-1} \\ \leftarrow \end{array} \tag{1}$$

$$\left(\begin{array}{ccc|c} 4 & 3 & 5 & 1 \\ 5 & 3 & 5 & 0 \end{array} \right) \begin{array}{l} \xrightarrow{-1} \\ \leftarrow \end{array} \tag{2}$$

$$\left(\begin{array}{ccc|cc} 4 & 3 & 5 & 1 & 0 \\ 5 & 3 & 5 & 0 & -1 \\ \hline -1 & 0 & 0 & & \\ 0 & 1 & 0 & & \\ 0 & 0 & 1b & & \end{array} \right)$$

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$$\begin{aligned}
 & \left(\begin{array}{ccc|cc} 4 & 3 & 4 & 1 & 0 \\ 5 & 3 & 5 & 0 & 1 \\ \hline 1 & 0 & 0 & & \\ 0 & 1 & 0 & & \\ \hline 0 & 0 & 1 & & \end{array} \right) \longrightarrow \left(\begin{array}{ccc|cc} 4 & 3 & 0 & 1 & 0 \\ 5 & 3 & 0 & 0 & 1 \\ \hline 1 & 0 & -1 & & \\ 0 & -1 & 0 & & \\ \hline 0 & 0 & 1 & & \end{array} \right) \longrightarrow \left(\begin{array}{ccc|cc} 1 & 3 & 0 & 1 & 0 \\ 2 & 3 & 0 & 0 & 1 \\ \hline 1 & 0 & -1 & & \\ -1 & 1 & 0 & & \\ 0 & 0 & 1 & & \end{array} \right) \xleftarrow{-2} \\
 & \longrightarrow \left(\begin{array}{ccc|cc} 1 & 3 & 0 & 1 & 0 \\ 0 & -3 & 0 & -2 & 1 \\ \hline 1 & 0 & -1 & & \\ -1 & 1 & 0 & & \\ 0 & 0 & 1 & & \end{array} \right) \xleftarrow{+1 \mid \cdot (-1)} \left(\begin{array}{ccc|cc} 1 & 0 & 0 & -1 & 1 \\ 0 & 3 & 0 & 2 & -1 \\ \hline 1 & 0 & -1 & & \\ -1 & 1 & 0 & & \\ 0 & 0 & 1 & & \end{array} \right)
 \end{aligned}$$

I am very fine, thank you for asking.

Hallo wie geht es dir heute.

$$\left(\begin{array}{ccc|c} 1 & 2 & 3 & 4 \\ 5 & 6 & -7 & 8 \\ \hline 9 & 10 & 11 & \\ \hline \end{array} \right) \begin{array}{l} \xrightarrow{\quad} \\ \xleftarrow{\quad} \end{array}$$