

$$\left[ \begin{array}{ccc|c} -8 & -7 & -3 & 1 \\ -9 & -9 & 0 & 1 \\ 7 & 7 & 0 & 1 \end{array} \right]$$

$$\rightarrow \left[ \begin{array}{ccc|c} -9 & -9 & 0 & 1 \\ -8 & -7 & -3 & 1 \\ 7 & 7 & 0 & 1 \end{array} \right] \rightarrow \left[ \begin{array}{ccc|c} 1 & 1 & 0 & -\frac{1}{9} \\ -8 & -7 & -3 & 1 \\ 7 & 7 & 0 & 1 \end{array} \right]$$

$$\rightarrow \left[ \begin{array}{ccc|c} 1 & 1 & 0 & -\frac{1}{9} \\ 0 & 1 & -3 & \frac{1}{9} \\ 0 & 0 & 0 & \frac{16}{9} \end{array} \right] \rightarrow \left[ \begin{array}{ccc|c} 1 & 0 & 3 & -\frac{2}{9} \\ 0 & 1 & -3 & \frac{1}{9} \\ 0 & 0 & 0 & \frac{16}{9} \end{array} \right]$$