

$$A = \begin{pmatrix} 1 & -1 & 1 \\ 0 & -2 & 1 \\ -2 & -3 & 0 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & -2 & 1 & | & 0 & 1 & 0 \\ 0 & -5 & 2 & | & 2 & 0 & 1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & 1 & -1/2 & | & 1 & 0 & 0 \\ 0 & -5 & 2 & | & 2 & 0 & 1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & 1 & -1/2 & | & 0 & -1/2 & 0 \\ 0 & -5 & 2 & | & 2 & 0 & 1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & 1 & -1/2 & | & 0 & -1/2 & 0 \\ 0 & 0 & -1/2 & | & 2 & -5/2 & 1 \end{pmatrix} .$$

$$\begin{pmatrix} 1 & -1 & 1 \\ 0 & 1 & -1/2 \\ 0 & 0 & -1/2 \\ 0 & 0 & -1/2 \\ \end{pmatrix} \begin{pmatrix} 1 & -1 & 1 \\ 0 & -1/2 \\ 2 & -5/2 \\ 1 \end{pmatrix} \cdot \begin{pmatrix} 1 & -1 & 1 \\ 0 & 1 & -1/2 \\ 0 & 0 & 1 \\ -4 & 5 & -2 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & 1 & -1/2 & | & 0 & -1/2 & 0 \\ 0 & 0 & 1 & | & -4 & 5 & -2 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & 1 & 0 & | & -2 & 2 & -1 \\ 0 & 0 & 1 & | & -4 & 5 & -2 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 1 & | & 1 & 0 & 0 \\ 0 & 1 & 0 & | & -2 & 2 & -1 \\ 0 & 0 & 1 & | & -4 & 5 & -2 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 0 & | & 5 & -5 & 2 \\ 0 & 1 & 0 & | & -2 & 2 & -1 \\ 0 & 0 & 1 & | & -4 & 5 & -2 \end{pmatrix}$$



