

Q4 A^{-1}

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

$$A^{-1} = \frac{A^{-1} A}{|A|}$$

$$\begin{matrix} m_{11} & m_{12} & m_{13} \\ m_{21} & m_{22} & m_{23} \\ m_{31} & m_{32} & m_{33} \end{matrix}$$

$$\text{DET} = -5$$

~~$$|A| = \begin{vmatrix} 1 & -1 & 3 \\ -1 & 2 & -2 \\ 1 & 0 & 1 \end{vmatrix} = 1(2-0) - 1(-1-2) + 3(-1-2)$$~~

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$$|A| = \begin{vmatrix} 1 & -1 & 3 \\ -1 & 2 & -2 \\ 1 & 0 & 1 \end{vmatrix} = 1(2-0) - 1(-1-2) + 3(-1-2)$$

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$$\text{DET} = -5$$

TRANSPOSITION

$$\begin{bmatrix} 1 & -1 & 1 \\ -1 & 2 & 0 \\ 3 & -2 & 1 \end{bmatrix}$$