

SMALL CHANGE IN

BIG

- Matrix $A = \begin{bmatrix} 1 & 0 & 0 \\ 2 & 3 & 1 \\ 4 & 2 & 1 \end{bmatrix}$

- Using $A^{-1} = \frac{1}{\det A} C^T$

- $A^{-1} = \begin{bmatrix} 1 & 0 & 0 \\ 2 & 1 & -1 \\ -8 & -2 & 3 \end{bmatrix}$

- $\det A^{-1} = \det \begin{bmatrix} 1 & 0 & 0 \\ 2 & 1 & -1 \\ -8 & -2 & 3 \end{bmatrix} = 1$

- Matrix $B = \begin{bmatrix} 1 & 0 & 1 \\ 2 & 3 & 1 \\ 4 & 2 & 1 \end{bmatrix}$

- Using $B^{-1} = \frac{1}{\det B} D^T$

- $B^{-1} = \begin{bmatrix} \frac{1}{7} & -\frac{2}{7} & \frac{3}{7} \\ -\frac{2}{7} & \frac{3}{7} & -\frac{1}{7} \\ \frac{8}{7} & \frac{2}{7} & -\frac{3}{7} \end{bmatrix}$

- $\det B^{-1} = \det \begin{bmatrix} \frac{1}{7} & -\frac{2}{7} & \frac{3}{7} \\ -\frac{2}{7} & \frac{3}{7} & -\frac{1}{7} \\ \frac{8}{7} & \frac{2}{7} & -\frac{3}{7} \end{bmatrix} = \frac{-9}{49}$

544%
CHANGE!

IN DETERMINANT OF INVERSE

MATRIX

CHANGE