

Suppose A is a square matrix of order n and let A^{-1} denote the inverse of A . A^{-1} is defined as

the corresponding collection of

$$\begin{bmatrix} A_{11} & A_{12} \\ A_{21} & A_{22} \\ A_{31} & A_{32} \end{bmatrix}$$

is given by

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$$A_{11} = \begin{bmatrix} -2 & 4 \\ 3 & 1 \end{bmatrix} \Rightarrow \det A_{11} = \begin{vmatrix} -2 & 4 \\ 3 & 1 \end{vmatrix} = -10, A_{12} = \begin{bmatrix} 1 & 4 \\ -4 & 3 \end{bmatrix} \Rightarrow \det A_{12} = \begin{vmatrix} 1 & 4 \\ -4 & 3 \end{vmatrix} = -17$$

$$A_{21} = \begin{bmatrix} 1 & -2 \\ 2 & 1 \end{bmatrix} \Rightarrow \det A_{21} = \begin{vmatrix} 1 & -2 \\ 2 & 1 \end{vmatrix} = 5, A_{22} = \begin{bmatrix} 1 & 4 \\ 2 & 1 \end{bmatrix} \Rightarrow \det A_{22} = \begin{vmatrix} 1 & 4 \\ 2 & 1 \end{vmatrix} = -7$$

$$\text{adj } A = \begin{bmatrix} 1 & -4 & 2 & -10 \\ 2 & 1 & 1 & -7 \\ 3 & 1 & 1 & -10 \\ 4 & 3 & 2 & -7 \end{bmatrix}$$

$$A^{-1} = \frac{1}{\det A} \text{adj } A = \frac{1}{-10} \begin{bmatrix} 1 & -4 & 2 & -10 \\ 2 & 1 & 1 & -7 \\ 3 & 1 & 1 & -10 \\ 4 & 3 & 2 & -7 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} -1/10 & 4/10 & -2/10 & 1 \\ -2/10 & 1/10 & -1/10 & 7/10 \\ -3/10 & 1/10 & -1/10 & 1 \\ -4/10 & 3/10 & -2/10 & 7/10 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} -1/10 & 2/5 & -1/5 & 1 \\ -1/5 & 1/10 & -1/10 & 7/10 \\ -3/10 & 1/10 & -1/10 & 1 \\ -2/5 & 3/10 & -1/5 & 7/10 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} -1/10 & 2/5 & -1/5 & 1 \\ -1/5 & 1/10 & -1/10 & 7/10 \\ -3/10 & 1/10 & -1/10 & 1 \\ -2/5 & 3/10 & -1/5 & 7/10 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} -1/10 & 2/5 & -1/5 & 1 \\ -1/5 & 1/10 & -1/10 & 7/10 \\ -3/10 & 1/10 & -1/10 & 1 \\ -2/5 & 3/10 & -1/5 & 7/10 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} -1/10 & 2/5 & -1/5 & 1 \\ -1/5 & 1/10 & -1/10 & 7/10 \\ -3/10 & 1/10 & -1/10 & 1 \\ -2/5 & 3/10 & -1/5 & 7/10 \end{bmatrix}$$

Now, the i th element of $A^{-1} \text{adj } A = a_{11} A_{11} + a_{12} A_{12} + \dots + a_{1n} A_{1n}$

$$= \begin{cases} |A|, & \text{when } i = k \\ 0, & \text{when } i \neq k \end{cases}$$

The above result

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