

④ Adjoint and Inverse of Matrix:

→ For a square matrix, adjoint; $\text{adj}(A) = (\text{co-factor matrix})^T$

→ For a 2x2 matrix:

$$A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \Rightarrow \text{adj}(A) = \begin{bmatrix} a_{22} & -a_{12} \\ -a_{21} & a_{11} \end{bmatrix}$$

↙ sign change ↘

→ For n x n matrix A:

$$|\text{adj} A|_{n \times n} = |A|^{n-1}$$

$$\rightarrow |\text{adj} \cdot \text{adj} \cdot \text{adj} \dots \text{times } A| = |A|^{(n-1)^2}$$

Shortcut for 3x3 matrix

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

(1) (2) (3)
↙ ↘ ↙ ↘ ↙ ↘
↙ ↘ ↙ ↘ ↙ ↘
(1) (2) (3)

$$\begin{matrix} M \\ L \\ F \\ M \end{matrix} \begin{matrix} 1 & 4 & -2 & 1 \\ -2 & 3 & -3 & -2 \\ 1 & 2 & -1 & 1 \\ 1 & 4 & -2 & 1 \end{matrix} \Rightarrow \text{adj} A = \begin{bmatrix} 11 & -6 & 7 \\ -7 & 3 & -15 \\ 2 & 0 & 1 \end{bmatrix}$$

• Inverse: $A^{-1} = \frac{1}{|A|} \cdot \text{adj}(A)$

→ $A \cdot \text{adj}(A) = |A| \cdot I$ → Inverse is defined only for non-singular matrix.

→ $|A^{-1}| = \frac{1}{|A|}$

→ $(ABC)^{-1} = C^{-1} \cdot B^{-1} \cdot A^{-1}$

⑤ Types of Square Matrices:

→ Diagonal matrix; $a_{ij} = \begin{cases} \text{any value} & i=j \\ 0 & i \neq j \end{cases}$

→ Scalar matrix; $a_{ij} = \begin{cases} k & i=j \\ 0 & i \neq j \end{cases}$

→ Unit matrix; $a_{ij} = \begin{cases} 1 & i=j \\ 0 & i \neq j \end{cases}$

→ Null matrix: All elements zero.

→ Upper triangular matrix $\begin{bmatrix} a & b \\ 0 & c \end{bmatrix}$

→ Lower triangular matrix $\begin{bmatrix} a & 0 \\ b & c \end{bmatrix}$

* For all the above matrices; $|A| = \text{Product of leading diagonal elements}$

→ Symmetric matrix: $[A^T = A]$

→ Skew-symmetric matrix: $[A^T = -A]$

→ Orthogonal matrix:

→ Hermitian Matrix:

main definition: $[A^T = A^{-1}]$

→ Complex square matrix if conjugated transpose is equal to matrix.

$$A \cdot A^T = A A^T$$

$$(\bar{A})^T = A$$

$$A \cdot A^T = I$$

→ For hermitian matrix; diagonal elements are real (including zero) and upper/lower diagonal elements are conjugate pairs.

$$|A \cdot A^T| = |I|$$

$$\Rightarrow |A| \cdot |A^T| = |I|$$

$$\Rightarrow |A|^2 = 1$$

Ex- $A = \begin{bmatrix} 1 & 2-i \\ 2+i & 3 \end{bmatrix} \Rightarrow (\bar{A})^T = \begin{bmatrix} 1 & 2-i \\ 2+i & 3 \end{bmatrix}$

$$\Rightarrow |A| = \pm 1$$

* If A orthogonal $\Rightarrow |A| = \pm 1$

* If $|A| = \pm 1$ for A is orthogonal.

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