④ Adjoint and Inverse of Matrix:

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

→ for a 2×2 matrix:

$A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \rightarrow Adj(A) = \begin{bmatrix} a_{22} & -a_{12} \\ -a_{21} & a_{11} \end{bmatrix}$

↳ sign change

→ for n×n matrix A:

$$|adj A|_{n×n} = |A|^{n-1}$$ → $$|adj \cdot adj \cdot adj \ldots \text{s times } A| = |A|^{(n-1)^s}$$

Shortcut for 3×3 matrix

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

M $\begin{bmatrix} 1 & 4 & -2 & 1 \\ -2 & 3 & -3 & -2 \\ 1 & -2 & -1 & 1 \\ 1 & 4 & -2 & 1 \end{bmatrix}$
L
F
M

$\Rightarrow adj A = \begin{bmatrix} 11 & -6 & 7 \\ -7 & 3 & -5 \\ 3 & 0 & 1 \end{bmatrix}$

· Inverse - $A^{-1} = \dfrac{1}{|A|} \cdot adj(A)$ → $A \cdot adj(A) = |A| \cdot I$ → Inverse is defined only for non-singular matrix.

→ $|A^{-1}| = \dfrac{1}{|A|}$

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

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 ; $|A| =$ Product of leading diagonal elements.

→ Symmetric matrix : $[A^T = A]$

→ Skew-symmetric matrix : $[A^T = -A]$

→ orthogonal matrix :

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

$A \cdot A^T = A A^2$

$A \cdot A^T = I$

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

⇒ $|A| \cdot |A^T| = |I|$

⇒ $|A|^2 = 1$

⇒ $|A| = \pm 1$

★ If A orthogonal ⟹ $|A| = \pm 1$

★ If $|A| = \pm 1$ ⟹ A is orthogonal

→ Hermition Matrix :

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

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

→ for hermition matrix ; diagonal elements are real (including zero) and upper, lower diagonal elements are conjugate pairs.

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

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