Matrix Algebra

Matrix: A system of any mn numbers arranged in a rectangular array of m rows and n columns is called a matrix of order $m \times n$. A matrix is usually denoted by a single capital letter, namely A, B, C, ... or by the symbols $\left[a_{ij} \right]$, (a_{ij}), $\|a_{ij}\|$.

The matrix of order $m \times n$ is written as:

$$\begin{bmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \dots & \dots & \dots & \dots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{bmatrix}_{m \times n}$$

Example: $A = \begin{bmatrix} 1 & -2 & 3 \\ 2 & 3 & -1 \\ -3 & 1 & 2 \end{bmatrix}_{3 \times 3}$; $B = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}_{3 \times 1}$; $C = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix}_{1 \times 3}$; $D = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}_{2 \times 3}$.

Difference between a matrix and a determinant:

The differences between a matrix and a determinant are as follows:

Matrix	Determinant
1. A matrix cannot be reduced to a single number.	1. A determinant can be reduced to a single number.
2. In a matrix, the number of rows may not be equal to the number of columns.	2. In a determinant, the number of rows must be equal to the number of columns.
3. An interchange of rows or columns gives a different matrix.	3. An interchange of rows or columns gives the same determinant with +ve or –ve sign.
4. Examples: $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$; $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$.	4. Examples: $\begin{vmatrix} 1 & 2 \\ 3 & 4 \end{vmatrix}$; $\begin{vmatrix} 1 & 2 & 3 \\ -2 & 1 & 0 \\ 2 & 3 & 4 \end{vmatrix}$.

Complex Matrix: Any matrix having complex elements is called a complex matrix.

Example: $A = \begin{bmatrix} 2+i & -2i & 3 \\ 2 & 3i & -1 \\ -3 & 1+2i & 2i \end{bmatrix}$.

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