

Chapter 7 summary

Properties of matrices

Matrix

A matrix is a rectangular array that displays a collection of values.

$$A = \begin{bmatrix} 4 & 2 & 1 & 3 \\ 9 & 6 & 7 & 8 \end{bmatrix}$$

Order

The dimensions of a matrix. It is expressed in the form:

number of rows \times number of columns

Example:

The following is a 2×4 matrix.

$$A = \begin{bmatrix} 4 & 2 & 1 & 3 \\ 9 & 6 & 7 & 8 \end{bmatrix}$$

Rows and columns

Rows are horizontal lists that are numbered from top to bottom.

$$\begin{bmatrix} 4 & 2 & 1 & 3 \\ 9 & 6 & 7 & 8 \end{bmatrix} \begin{matrix} 1 \\ 2 \end{matrix}$$

Columns are vertical lists that are numbered from left to right.

$$\begin{matrix} 1 & 2 & 3 & 4 \\ \begin{bmatrix} 4 & 2 & 1 & 3 \\ 9 & 6 & 7 & 8 \end{bmatrix} \end{matrix}$$

Elements

An element is an entry in a matrix. An element in matrix A can be referenced as a_{mn} , where

- m is the row number
- n is the column number

Example:

The element a_{23} is located in the second row and third column.

$$A = \begin{bmatrix} 4 & 2 & 1 & 3 \\ 9 & 6 & 7 & 8 \end{bmatrix} \begin{matrix} 1 \\ 2 \end{matrix}$$

Types of matrices

Row matrix

A matrix with one row and any number of columns.

$$[10 \ 5] \text{ and } [4 \ -4 \ 8 \ 8 \ 3]$$

Column matrix

A matrix with one column and any number of rows.

$$\begin{bmatrix} 2 \\ 14 \\ 6 \\ 9 \end{bmatrix} \text{ and } \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

Columns are vertical lists that are numbered from left to right.

Square matrix

A matrix with an equal number of rows and columns.

$$\begin{bmatrix} 5.2 & 1 \\ 9 & 1.6 \end{bmatrix} \text{ and } \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \\ 13 & 14 & 15 & 16 \end{bmatrix}$$

Upper triangular matrix

A square matrix where all elements below the leading diagonal are '0'.

$$\begin{bmatrix} 4 & 5 & 7 \\ 0 & 1 & 6 \\ 0 & 0 & 8 \end{bmatrix}$$

Lower triangular matrix

A square matrix where all elements above the leading diagonal are '0'.

$$\begin{bmatrix} 3 & 0 & 0 \\ 1 & 3 & 0 \\ 5 & 4 & 2 \end{bmatrix}$$

Zero matrix

A matrix of any size where all of the elements are zero.

$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} \text{ and } \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$$

Binary matrix

A matrix of any size in which all elements are either 0 or 1.

$$\begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \\ 1 & 1 & 1 & 0 \end{bmatrix}$$

Symmetric matrix

A square matrix that is symmetric along the leading diagonal.

$$\begin{bmatrix} 2 & 6 & 5 \\ 6 & 0 & 1 \\ 5 & 1 & 2 \end{bmatrix}$$

Diagonal matrix

A square, symmetric matrix in which all elements not in the leading diagonal are '0'.

$$\begin{bmatrix} 2.5 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 1.0 \end{bmatrix} \text{ and } \begin{bmatrix} 17 & 0 & 0 & 0 \\ 0 & 32 & 0 & 0 \\ 0 & 0 & 57 & 0 \\ 0 & 0 & 0 & 12 \end{bmatrix}$$

Identity matrix

A square matrix where all of the elements in the leading diagonal (the diagonal line from the top left corner to the bottom right corner of a square matrix) are one and the rest of the elements are zero. It is commonly denoted as I .

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \text{ and } \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

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