

Chapter 7. Matrices

1) If matrix $A = \begin{bmatrix} 4 & 2 \\ 3 & 1 \end{bmatrix}$ then its order will be =

- A) 3 x 3
- B) 2 x 2
- C) 4 x 2
- D) 2 x 7

Answer: B

2) If $A = \begin{bmatrix} 4+2 \\ 3-1 \end{bmatrix}$ then its order will be

- A) 2 x 1
- B) 3 x 2
- C) 3 x 3
- D) none

Answer: A

3) If $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ then it is called _____ matrix

- A) scalar
- B) unit
- C) singular
- D) none

Answer: B

4) If $A = \begin{bmatrix} 5 & 7 \\ 8 & 9 \end{bmatrix}$ then the transpose of it will be

- A) $\begin{bmatrix} 5 & 8 \\ 7 & 1 \end{bmatrix}$
- B) $\begin{bmatrix} 5 & 8 \\ 7 & 9 \end{bmatrix}$
- C) $\begin{bmatrix} 5 & 9 \\ 7 & 8 \end{bmatrix}$
- D) none

Answer: B

5) The additive inverse of $\begin{bmatrix} 0 & 5b \\ 3c & -1 \end{bmatrix}$ is

- A) $\begin{bmatrix} 0 & -5b \\ -3c & 1 \end{bmatrix}$
- B) $\begin{bmatrix} 0 & -5b \\ -3c & 11 \end{bmatrix}$
- C) $\begin{bmatrix} 0 & 5b \\ -3c & 1 \end{bmatrix}$
- D) none

Answer: A

6) If the determinant of a matrix is 0 then it is called

- A) non-singular
- B) singular
- C) null
- D) unit

Answer: B

7) If the order of two matrices are same then _____ operation(s) are conformable possible.

- A) addition
- B) subtraction
- C) multiplication
- D) both A and B

Answer: D

8) A _____ matrix is always square matrix.

- A) scalar
- B) diagonal
- C) both A and B
- D) none of these

Answer: C

9) In matrix, $\begin{bmatrix} 7 & 2 \\ 3 & 1 \end{bmatrix}$, the elements 2,3 are in _____ diagonal while 7,1 are in _____ diagonal.

- A) leading, legging
- B) legging, leading
- C) first, second
- D) none

Answer: A

10) If A,B,C are conformable for multiplication the _____ property of multiplication is hold by A,B,C.

- A) commutative
- B) associative
- C) both A and B
- D) none of these

Answer: B

11) If A and B are multiplicative inverse matrices of each other then

- A) $AB = A$
- B) $AB = B$
- C) $AB = I$
- D) None of these

Answer: C

12) If A is a non-singular matrix then $|A| =$

- A) |adjoint A|
- B) $|-A|$
- C) $|\frac{1}{A}|$
- D) Both A and B

Answer: D

