



# MATRICES EXERCISES & SOLUTIONS

## QUESTIONS

## SOLUTIONS

1

Find the order of the following matrices.

$$A = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 2 & 5 \end{bmatrix}$$

$$C = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix} \quad D = \begin{bmatrix} 2 & 4 & 5 \end{bmatrix}$$

- Order of A is 2 by 2
- Order of B is 2 by 3
- Order of C is 3 by 1
- Order of D is 1 by 3

2

Which of the following matrices are equal?

$$A = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 3 & 4 \\ 2 & 5 & 6 \\ 3 & 2 & 1 \end{bmatrix} \quad C = \begin{bmatrix} 3 & 2 \\ 2 & 1 \\ 3 & 4 \end{bmatrix}$$

$$D = \begin{bmatrix} 4 & 1 \\ 0 & 1 \end{bmatrix} \quad E = \begin{bmatrix} 2 & 0 & 2 \\ 1 & 1 & 1 \\ 3 & 2 & 0 \end{bmatrix} \quad F = \begin{bmatrix} 1 & 2 \\ 2 & 3 \\ 1 & 2 \end{bmatrix}$$

$$A = D, \\ B = E, \\ C = F$$

3

From the following matrices, identify the square, rectangular, row, column, identity, zero matrices.

$$A = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \quad C = \begin{bmatrix} 3 & 2 & 1 \end{bmatrix}$$

$$D = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \quad E = \begin{bmatrix} 3 & 2 \\ 1 & 2 \\ 1 & 1 \end{bmatrix} \quad F = \begin{bmatrix} 3 \\ 2 \\ 5 \end{bmatrix}$$

- A = Square Matrix
- B = Identity Matrix
- C = Row Matrix
- D = Zero or Null Matrix
- E = Rectangular Matrix
- F = Column Matrix

4

Find the negative of the following matrices.

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

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

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

5

Find the transpose of the following matrices.

$$A = \begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix} \quad B = \begin{bmatrix} 2 & 2 & 2 \\ 1 & 3 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 2 & 3 & 2 \end{bmatrix} \quad D = \begin{bmatrix} 2 & 3 \\ 1 & 2 \\ 3 & 1 \end{bmatrix}$$

$$A^t = \begin{bmatrix} 3 & 2 \\ 1 & 2 \end{bmatrix} \quad B^t = \begin{bmatrix} 2 & 1 \\ 2 & 3 \\ 2 & 1 \end{bmatrix}$$

$$C^t = \begin{bmatrix} 2 \\ 3 \\ 2 \end{bmatrix} \quad D^t = \begin{bmatrix} 2 & 1 & 3 \\ 3 & 2 & 1 \end{bmatrix}$$

6

Find A+B and A-B

$$A = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 3 & 2 \\ 2 & 5 \end{bmatrix}$$

$$A+B = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} + \begin{bmatrix} 3 & 2 \\ 2 & 5 \end{bmatrix}$$

$$A+B = \begin{bmatrix} 2+3 & 2+2 \\ 3+2 & 1+5 \end{bmatrix} = \begin{bmatrix} 5 & 4 \\ 5 & 6 \end{bmatrix}$$

$$A-B = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} - \begin{bmatrix} 3 & 2 \\ 2 & 5 \end{bmatrix}$$

$$A-B = \begin{bmatrix} 2-3 & 2-2 \\ 3-2 & 1-5 \end{bmatrix} = \begin{bmatrix} -1 & 0 \\ 1 & -4 \end{bmatrix}$$

# Matrices Problems And Solutions

**Chao Zhang**



## **Matrices Problems And Solutions:**

## **Matrices Problems And Solutions** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Matrices Problems And Solutions**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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