



# 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

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## **Table of Contents Matrices Problems And Solutions**

1. Understanding the eBook Matrices Problems And Solutions
  - The Rise of Digital Reading Matrices Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Matrices Problems And Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Matrices Problems And Solutions
  - User-Friendly Interface

4. Exploring eBook Recommendations from Matrices Problems And Solutions
  - Personalized Recommendations
  - Matrices Problems And Solutions User Reviews and Ratings
  - Matrices Problems And Solutions and Bestseller Lists
5. Accessing Matrices Problems And Solutions Free and Paid eBooks
  - Matrices Problems And Solutions Public Domain eBooks
  - Matrices Problems And Solutions eBook Subscription Services
  - Matrices Problems And Solutions Budget-Friendly Options
6. Navigating Matrices Problems And Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Matrices Problems And Solutions Compatibility with Devices
  - Matrices Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Matrices Problems And Solutions
  - Highlighting and Note-Taking Matrices Problems And Solutions
  - Interactive Elements Matrices Problems And Solutions
8. Staying Engaged with Matrices Problems And Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Matrices Problems And Solutions
9. Balancing eBooks and Physical Books Matrices Problems And Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Matrices Problems And Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Matrices Problems And Solutions
  - Setting Reading Goals Matrices Problems And Solutions
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Matrices Problems And Solutions
  - Fact-Checking eBook Content of Matrices Problems And Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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