MATRICES EXERCISES & SOLUTIONS

QUESTIONS	SOLUTIONS

1

Find the order of the following matrices.

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

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

- 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.

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

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

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

5

Find the transpose of the following matrices.

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

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

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

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

6

Find A+B and A−B

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

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

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

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

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

Matrices Problems And Solutions

Boris Grigor'evich Mirkin

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