### NCERT Exemplar Solutions Class 12 Mathematics Chapter 3: Matrices

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#### Short Answer (S.A.)

# 1. If a matrix has 28 elements, what are the possible orders it can have? What if it has 13 elements? Solution:

For a given matrix of order  $m \times n$ , it has mn elements, where m and n are natural numbers. Here we have,  $m \times n = 28$   $(m, n) = \{(1, 28), (2, 14), (4, 7), (7, 4), (14, 2), (28, 1)\}$  So, the possible orders are  $1 \times 28$ ,  $2 \times 14$ ,  $4 \times 7$ ,  $7 \times 4$ ,  $14 \times 2$ ,  $28 \times 1$ . Also, if it has 13 elements, then  $m \times n = 13$   $(m, n) = \{(1, 13), (13, 1)\}$  Thus, the possible orders are  $1 \times 13$ ,  $13 \times 1$ .

2. In the matrix A = 
$$\begin{bmatrix} a & 1 & x \\ 2 & \sqrt{3} & x^2 - y \\ 0 & 5 & \frac{-2}{5} \end{bmatrix}$$
, write:

(i) The order of the matrix A.

(ii) The number of elements

(iii) Write elements a<sub>23</sub>, a<sub>31</sub>, a<sub>12</sub> Solution:

For the given matrix,

(i) The order of the matrix A is 3 x 3.

(ii) The number of elements of the matrix =  $3 \times 3 = 9$ 

(iii) Elements:  $a_{23} = x^2 - y$ ,  $a_{34} = 0$ ,  $a_{12} = 1$ 

#### 3. Construct a2 x 2 matrix where

(i)  $a_{ij} = (i - 2j)^2/2$ 

 $(ii) \ \mathbf{a}_{iij} = \|-2\mathbf{i} + 3\mathbf{j}\|$ 

Solution:

We have,  $A = \{a_{ij}\}_{2\times 2}$ 

(i) Such that,  $a_{ij}=(i-2j)^2/2;$  where  $1\leq i\leq 2;$   $1\leq j\leq 2$  So, the terms of the matrix are

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**S Marginson** 

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