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 1×28 , 2×14 , 4×7 , 7×4 , 14×2 , 28×1 . Also, if it has 13 elements, then $m \times n = 13$ $(m, n) = \{(1, 13), (13, 1)\}$ Thus, the possible orders are 1×13 , 13×1 .

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 a₂₃, a₃₁, a₁₂ 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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