

# Mathematics

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(Chapter - 2) (Relations and Functions) (Exercise 2.1)

(Class 11)

## Question 1:

If  $\left(\frac{x}{3} + 1, y - \frac{2}{3}\right) = \left(\frac{5}{3}, \frac{1}{3}\right)$ , find the values of  $x$  and  $y$ .

**Answer 1:**

Here,  $\left(\frac{x}{3} + 1, y - \frac{2}{3}\right) = \left(\frac{5}{3}, \frac{1}{3}\right)$

$$\Rightarrow \frac{x}{3} + 1 = \frac{5}{3} \quad \text{and} \quad y - \frac{2}{3} = \frac{1}{3}$$

$$\Rightarrow \frac{x}{3} = \frac{5}{3} - 1 = \frac{2}{3} \quad \text{and} \quad y = \frac{1}{3} + \frac{2}{3} = \frac{3}{3}$$

$$\Rightarrow x = 2 \quad \text{and} \quad y = 1$$

## Question 2:

If the set  $A$  has 3 elements and the set  $B = \{3, 4, 5\}$ , then find the number of elements in  $(A \times B)$ .

**Answer 2:**

Number of elements in  $A = 3$  and set  $B = \{3, 4, 5\}$ ,

Number of elements in  $B = 3$

Number of elements in  $A \times B = (\text{Number of elements in } A) \times (\text{Number of elements in } B) = 3 \times 3 = 9$

Hence, the number of elements in  $A \times B$  is 9.

## Question 3:

If  $G = \{7, 8\}$  and  $H = \{5, 4, 2\}$ , find  $G \times H$  and  $H \times G$ .

**Answer 3:**

$G = \{7, 8\}$  and  $H = \{5, 4, 2\}$ . Therefore,

$G \times H = \{(7, 5), (7, 4), (7, 2), (8, 5), (8, 4), (8, 2)\}$  and

$H \times G = \{(5, 7), (5, 8), (4, 7), (4, 8), (2, 7), (2, 8)\}$

## Question 4:

State whether each of the following statements are true or false. If the statement is false, rewrite the given statement correctly.

(i) If  $P = \{m, n\}$  and  $Q = \{n, m\}$ , then  $P \times Q = \{(m, n), (n, m)\}$ .

(ii) If  $A$  and  $B$  are non-empty sets, then  $A \times B$  is a non-empty set of ordered pairs  $(x, y)$  such that  $x \in A$  and  $y \in B$ .

(iii) If  $A = \{1, 2\}$ ,  $B = \{3, 4\}$ , then  $A \times (B \cap \phi) = \phi$ .

**Answer 4:**

(i) False, if  $P = \{m, n\}$  and  $Q = \{n, m\}$ , then  $P \times Q = \{(m, n), (m, m), (n, n), (n, m)\}$

(ii) True

(iii) True

## Question 5:

If  $A = \{-1, 1\}$ , find  $A \times A \times A$ .

**Answer 5:**

$A = \{-1, 1\}$ , therefore,  $A \times A = \{-1, 1\} \times \{-1, 1\} = \{(-1, -1), (-1, 1), (1, -1), (1, 1)\}$

and  $A \times A \times A = \{(-1, -1), (-1, 1), (1, -1), (1, 1)\} \times \{-1, 1\}$

$= \{(-1, -1, -1), (-1, -1, 1), (-1, 1, -1), (-1, 1, 1), (1, -1, -1), (1, -1, 1), (1, 1, -1), (1, 1, 1)\}$

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**Jessica J Manson**



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web cálculo e diagramas de esforço cortante e momento fletor exercícios resolvidos ezequiel borges 15 48 represente graficamente os diagramas de força cortante e