# Mathematics

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(Chapter - 1) (Relations and Functions) (Exercise 1.1)
(Class - XII)

#### **Question 1:**

Determine whether each of the following relations are reflexive, symmetric and transitive: (i) Relation R in the set  $A = \{1, 2, 3... 13, 14\}$  defined as  $R = \{(x, y): 3x - y = 0\}$ (ii) Relation R in the set N of natural numbers defined as  $R = \{(x, y): y = x + 5 \text{ and } x < 4\}$ (iii) Relation R in the set A = {1, 2, 3, 4, 5, 6} as R = {(x, y): y is divisible by x} (iv) Relation R in the set Z of all integers defined as R = {(x, y): x - y is an integer}. (v) Relation R in the set A of human beings in a town at a particular time given by (a) R = {(x, y): x and y work at the same place} (b) R = {(x, y): x and y live in the same locality} (c)  $R = \{(x, y): x \text{ is exactly 7 cm taller than } y\}$ (d)  $R = \{(x, y): x \text{ is wife of } y\}$ (e)  $R = \{(x, y) : x \text{ is father of } y\}$ Answer 1: (ii)  $A = \{1, 2, 3, ..., 13, 14\}$  $R = \{(x, y): 3x - y = 0\}$  $R = \{(1, 3), (2, 6), (3, 9), (4, 12)\}$ R is not reflexive since  $(1, 1), (2, 2) \dots (14, 14) \notin R$ . Also, R is not symmetric as  $(1,3) \in \mathbb{R}$ , but  $(3,1) \notin \mathbb{R}$ ,  $[3(3)-1 \neq 0]$ Also, R is not transitive as (1, 3),  $(3, 9) \in R$ , but  $(1, 9) \notin R$ .  $[3(1) - 9 \neq 0]$  Hence, R is neither reflexive, nor symmetric, nor transitive.  $R = \{(x, y): y = x + 5 \text{ and } x \le 4\} = \{(1, 6), (2, 7), (3, 8)\}$ It is clear that (1, 1) ∉ R. A R is not reflexive. (1, 6) ∈ R But, (1, 6) ∉ R. R is not symmetric. Now, since there is no pair in R such that (x, y) and  $(y, z) \in \mathbb{R}$ , then (x, z) cannot belong to R. R is not transitive. Hence, R is neither reflexive, nor symmetric, nor transitive. (iii)  $A = \{1, 2, 3, 4, 5, 6\}$  $R = \{(x, y): y \text{ is divisible by } x\}$ We know that any number (x) is divisible by itself. So,  $(x, x) \in \mathbb{R}$  R is reflexive. Now,  $(2, 4) \in \mathbb{R}$ [as 4 is divisible by 2] But, (4, 2) @ R. [as 2 is not divisible by 4] R is not symmetric. Let (x, y),  $(y, z) \in \mathbb{R}$ . Then, y is divisible by x and z is divisible by y. z is divisible by x.  $\Rightarrow$   $(x, z) \in \mathbb{R}$  R is transitive. Hence, R is reflexive and transitive but not symmetric. (iv)  $R = \{(x, y): x - y \text{ is an integer}\}$ Now, for every  $x \in \mathbb{Z}$ ,  $(x, x) \in \mathbb{R}$  as x - x = 0 is an integer. R is reflexive. Now, for every  $x, y \in \mathbb{Z}$ , if  $(x, y) \in \mathbb{R}$ , then x - y is an integer.  $\Rightarrow -(x-y)$  is also an integer.  $\Rightarrow$  (y-x) is an integer.  $\wedge$   $(v, x) \in \mathbb{R}$  R is symmetric. Now, let (x, y) and  $(y, z) \in \mathbb{R}$ , where  $x, y, z \in \mathbb{Z}$ .  $\Rightarrow$  (x - y) and (y - z) are integers.  $\Rightarrow x - z = (x - y) + (y - z)$  is an integer.  $x_*(x,z) \in \mathbb{R}$ A R is trunsitive. Hence, R is reflexive, symmetric, and transitive.

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