

## Exercise 1.1

1. Determine whether each of the following relations are reflexive, symmetric and transitive:

- (i) Relation  $R$  in the set  $A = \{1, 2, 3, \dots, 13, 14\}$  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  
 $R = \{(x, y) : y \text{ is divisible by } x\}$
- (iv) Relation  $R$  in the set  $Z$  of all integers defined as  
 $R = \{(x, y) : x - y \text{ is an integer}\}$  (Important)
- (v) Relation  $R$  in the set  $A$  of human beings in a town at a particular time given by
  - (a)  $R = \{(x, y) : x \text{ and } y \text{ work at the same place}\}$
  - (b)  $R = \{(x, y) : x \text{ and } y \text{ live in the same locality}\}$
  - (c)  $R = \{(x, y) : x \text{ is exactly } 7 \text{ cm taller than } y\}$
  - (d)  $R = \{(x, y) : x \text{ is wife of } y\}$
  - (e)  $R = \{(x, y) : x \text{ is father of } y\}$

Sol.

- (i) Given: Set  $A = \{1, 2, 3, \dots, 13, 14\}$

Relation  $R$  in the set  $A$  is defined as

$$R = \{(x, y) : 3x - y = 0\}$$

$$\text{i.e., } R = \{(x, y) : -y = -3x \text{ i.e., } y = 3x\} \quad \dots(i)$$

**Is  $R$  reflexive?** Let  $x \in A$ . Putting  $y = x$  in (i),  $x = 3x$

Dividing by  $x \neq 0$  ( $x \in A$  here is  $\neq 0$ ),  $1 = 3$  which is impossible. Therefore  $(x, x) \notin R$  and hence  $R$  is not reflexive.

**Is  $R$  symmetric?** Let  $(x, y) \in R$ , therefore by (i)  $y = 3x$

**Interchanging  $x$  and  $y$  in (i),  $x = 3y$  which is not true**

$$(\because y = 3x \Rightarrow x = \frac{y}{3} \text{ and } \neq 3y)$$

For example,  $2 \in A$ ,  $6 \in A$  and  $6 = 3(2)$  (i.e.,  $y = 3x$ )  
 but  $2 \neq 3(6) = 18$ .

$\therefore (2, 6) \in R$  but  $(6, 2) \notin R \quad \therefore R$  is not symmetric.

**Is  $R$  transitive?** Let  $(x, y) \in R$  and  $(y, z) \in R$ .

Therefore by (i),  $y = 3x$  and  $z = 3y$ .

To eliminate  $y$ , Putting  $y = 3x$  in  $z = 3y$ ,  $z = 3(3x) = 9x$

$\therefore$  By (i),  $(x, z) \notin R$ .

$\therefore R$  is not transitive.

- (ii) **Given:** Relation  $R$  in the set of natural numbers defined as

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