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, ..., 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
   $$R = \{(x, y) : x - y \text{ is an integer}\} \quad (\textit{Important})$$

   (*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*) $R = \{(x, y) : x \text{ is exactly 7 cm taller than } y\}$

   (*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, ..., 13, 14}

Relation R in the set A is defined as
$$R = \{(x, y) : 3x - y = 0\}$$

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

$$\left(\because \quad y = 3x \implies x = \frac{y}{3} \text{ and } \neq 3y \right)$$

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

∴ $(2, 6) \in R$ but $(6, 2) \notin R$ ∴   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 $z = 3y$, $z = 3(3x) = 9x$

∴   By (*i*), $(x, z) \notin R$.

∴   R is not transitive.

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

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