

NCERT Solutions Class 12 Maths Chapter 1 Relations and Functions

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 of N natural numbers defined as $R = \{(x, y): y = x + 5 \text{ and } x < 4\}$
- (iii) Relation R in the set $A = \{1, 2, 3, 4, 5, 6\}$ defined as $R = \{(x, y): y \text{ is divisible by } x\}$
- (iv) Relation R in the set of Z integers defined as $R = \{(x, y) : x y \text{ is an integer}\}$
- (v) Relation R in the set 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) $R = \{(x, y) : x \text{ and } y \text{ live in the same locality}\}$
 - (c) $R = \{(x, y) : x \text{ is exactly 7cm taller than } y\}$
 - (d) $R = \{(x, y) : x \text{ is wife of } y\}$
 - (c) $R = \{(x, y) : x \text{ is father of } y\}$

Solution:

(i) $R = \{(1,3),(2,6),(3,9),(4,12)\}$

R is not reflexive because (1,1),(2,2)... and $(14,14) \notin R$

R is not symmetric because $(1,3) \in R$, but $(3,1) \notin R$. [since $3(3) \neq 0$]

R is not transitive because $(1,3),(3,9) \in R$, but $(1,9) \notin R.[3(1)-9 \neq 0]$. Hence, R is neither reflexive nor symmetric nor transitive.

(ii) $R = \{(1,6),(2,7),(3,8)\}$

R is not reflexive because $(1,1) \notin R$.

R is not symmetric because $(1,6) \in R$ but $(6,1) \notin R$.

R is not transitive because there isn't any ordered pair in R such that $(x,y),(y,z)\in R$, so $(x,z)\notin R$.

Hence, R is neither reflexive nor symmetric nor transitive.

(iii) $R = \{(x, y) : y \text{ is divisible by } x\}$

We know that any number other than 0 is divisible by itself.

Thus, $(x,x) \in R$

So, R is reflexive.

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