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 $A = \{1, 2, 3, \ldots, 13, 14\}$ 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) $R = \{(x, y) : x \text{ and } y \text{ work at the same place}\}$

(b) $R = \{(x, y) : x \text{ and } y \text{ live in the same locality}\}$

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

(d) $R = \{(x, y) : x \text{ is wife of } y\}$

(e) $R = \{(x, y) : x \text{ is father of } y\}$

Solution:

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

R is not reflexive because $(1,1), (2,2) \ldots$ 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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Table of Contents Solution Of Chapter 1 12 Maths Ncert

1. Understanding the eBook Solution Of Chapter 1 12 Maths Ncert
    - The Rise of Digital Reading Solution Of Chapter 1 12 Maths Ncert
    - Advantages of eBooks Over Traditional Books
2. Identifying Solution Of Chapter 1 12 Maths Ncert
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Solution Of Chapter 1 12 Maths Ncert
    - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Of Chapter 1 12 Maths Ncert
    - Personalized Recommendations

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web this section of matlab source code covers lte basics and provide link to lte matlab code lte is the latest of 3gpp series of cellular wireless standards there are two components in lte enodeb same as base station and ue same as mobile there are two main terminologies in lte as other standards viz downlink and uplink downlink refers

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