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. \[
\text{z is divisible by x.}
\] \Rightarrow $(x, z) \in \mathbb{R}$ R is transitive. Hence, R is reflexive and transitive but not symmetric. (iv) $\mathbf{R} = \{(x, y): x - y \text{ is an integer}\}$ 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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Table of Contents Mbd Maths Guide For Class 12

- 1. Understanding the eBook Mbd Maths Guide For Class 12
 - The Rise of Digital Reading Mbd Maths Guide For Class 12
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mbd Maths Guide For Class 12
 - 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 Mbd Maths Guide For Class 12
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mbd Maths Guide For Class 12
 - Personalized Recommendations
 - Mbd Maths Guide For Class 12 User Reviews and Ratings
 - Mbd Maths Guide For Class 12 and Bestseller Lists
- 5. Accessing Mbd Maths Guide For Class 12 Free and Paid eBooks
 - Mbd Maths Guide For Class 12 Public Domain eBooks
 - Mbd Maths Guide For Class 12 eBook Subscription Services
 - Mbd Maths Guide For Class 12 Budget-Friendly Options
- 6. Navigating Mbd Maths Guide For Class 12 eBook Formats

- o ePub, PDF, MOBI, and More
- Mbd Maths Guide For Class 12 Compatibility with Devices
- Mbd Maths Guide For Class 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mbd Maths Guide For Class 12
 - Highlighting and Note-Taking Mbd Maths Guide For Class 12
 - Interactive Elements Mbd Maths Guide For Class 12
- 8. Staying Engaged with Mbd Maths Guide For Class 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mbd Maths Guide For Class 12
- 9. Balancing eBooks and Physical Books Mbd Maths Guide For Class 12
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Mbd Maths Guide For Class 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mbd Maths Guide For Class 12
 - Setting Reading Goals Mbd Maths Guide For Class 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mbd Maths Guide For Class 12
 - Fact-Checking eBook Content of Mbd Maths Guide For Class 12
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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