

# 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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# **Table of Contents Solution Of Chapter 12 Maths Ncert**

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

- o ePub, PDF, MOBI, and More
- Solution Of Chapter 12 Maths Ncert Compatibility with Devices
- Solution Of Chapter 12 Maths Ncert Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Solution Of Chapter 12 Maths Ncert
  - Highlighting and Note-Taking Solution Of Chapter 12 Maths Ncert
  - Interactive Elements Solution Of Chapter 12 Maths Ncert
- 8. Staying Engaged with Solution Of Chapter 12 Maths Ncert
  - Joining Online Reading Communities
  - o Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Of Chapter 12 Maths Ncert
- 9. Balancing eBooks and Physical Books Solution Of Chapter 12 Maths Ncert
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution Of Chapter 12 Maths Ncert
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Of Chapter 12 Maths Ncert
  - Setting Reading Goals Solution Of Chapter 12 Maths Ncert
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Of Chapter 12 Maths Ncert
  - Fact-Checking eBook Content of Solution Of Chapter 12 Maths Ncert
  - 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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