

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 $A = \{1, 2, 3, \dots, 13, 14\}$ 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 $R = \{(x, y) : x - y \text{ is an integer}\}$
- (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) $R = \{(x, y) : x \text{ is exactly } 7 \text{ cm taller than } y\}$
 - (d) $R = \{(x, y) : x \text{ is wife of } y\}$
 - (e) $R = \{(x, y) : x \text{ is father of } y\}$

Answer 1:

(i) $A = \{1, 2, 3, \dots, 13, 14\}$

$R = \{(x, y) : 3x - y = 0\}$

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

R is not reflexive since $(1, 1), (2, 2) \dots (14, 14) \notin R$.

Also, R is not symmetric as $(1, 3) \in R$, but $(3, 1) \notin R$. [$3(3) - 1 \neq 0$]

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.

(ii) $R = \{(x, y) : y = x + 5 \text{ and } x < 4\} = \{(1, 6), (2, 7), (3, 8)\}$

It is clear that $(1, 1) \notin R$.

$\therefore R$ is not reflexive.

$(1, 6) \in R$ But, $(1, 6) \notin R$.

$\therefore R$ is not symmetric.

Now, since there is no pair in R such that (x, y) and $(y, z) \in R$, then (x, z) cannot belong to R .

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

$\therefore R$ is reflexive.

Now, $(2, 4) \in R$

[as 4 is divisible by 2]

But, $(4, 2) \notin R$

[as 2 is not divisible by 4]

$\therefore R$ is not symmetric.

Let $(x, y), (y, z) \in R$. Then, y is divisible by x and z is divisible by y .

$\therefore z$ is divisible by x .

$\Rightarrow (x, z) \in R$

$\therefore R$ is transitive.

Hence, R is reflexive and transitive but not symmetric.

(iv) $R = \{(x, y) : x - y \text{ is an integer}\}$

Now, for every $x \in Z$, $(x, x) \in R$ as $x - x = 0$ is an integer.

$\therefore R$ is reflexive.

Now, for every $x, y \in Z$, if $(x, y) \in R$, then $x - y$ is an integer.

$\Rightarrow -(x - y)$ is also an integer.

$\Rightarrow (y - x)$ is an integer.

$\therefore (y, x) \in R$

$\therefore R$ is symmetric.

Now, let (x, y) and $(y, z) \in R$, where $x, y, z \in Z$.

$\Rightarrow (x - y)$ and $(y - z)$ are integers.

$\Rightarrow x - z = (x - y) + (y - z)$ is an integer.

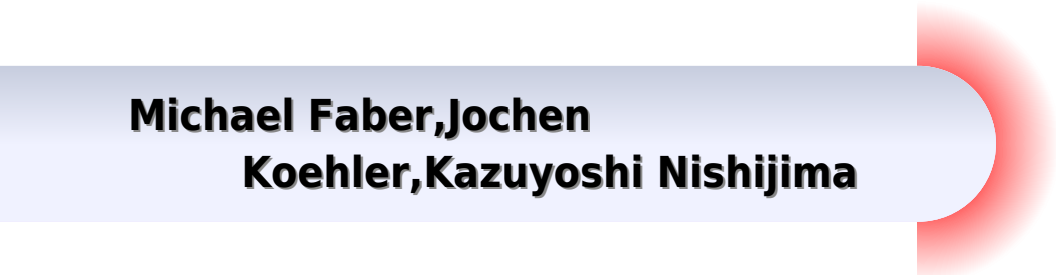
$\therefore (x, z) \in R$

$\therefore R$ is transitive.

Hence, R is reflexive, symmetric, and transitive.

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**Michael Faber, Jochen
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statisticians specializing in QTL mapping the book can also be used as a supplement in graduate courses or for self study by PhD students working on QTL mapping projects *Elements of Mathematics for Class XII* M L Bhargava,Janardan Dinodia,G K Kharbanda,2006 **Mathematics Part I Class XII - SBPD Publications** Dr. Ram Dev Sharma Er. Meera Goyal,2021-05-06 UNIT I RELATIONS AND FUNCTIONS 1 Relations 2 Functions 3 Inverse Trigonometric Functions UNIT II ALGEBRA 4 Matrices 5 Determinants 6 Adjoint and Inverse of a Matrix 7 Solution of a System of Linear Equations UNIT III CALCULUS 8 Continuity 9 Differentiability 10 Differentiation 11 Second Order Derivative 12 Rolle s Theorem and Lagrange s Mean Value Theorem 13 Applications of Derivatives 14 Increasing and Decreasing Functions 15 Tangent and Normal 16 Approximation 17 Maxima and Minima Board Examination Papers Comprehensive Mathematics XII , APC Question Bank and Sample Papers in Mathematics for Class 12 - Arya Publishing Company M.L. Aggarwal, Question Bank and Sample Papers in Mathematics for Class XII by Prof M L Aggarwal has been written according to the changed style of question paper relevant for 2015 Board Examinations The Salient Features of the book are Latest Sample Papers issued by the CBSE for 2015 Examinations with solutions Chapterwise Basic Concepts and Important Results Chapterwise Assignments for Practice 1 mark 4 marks 6 marks Chapterwise Questions from Previous Years Board Papers Ten Sample Papers for Practice 4 Solved 6 Unsolved CBSE Examination Paper 2014 Fully Solved Delhi and Outside Delhi

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