

Chapter 1

FUNDAMENTALS OF MATHEMATICS

LECTURE-5 SET THEORY

DEFINITION

A set is a collection of well-defined objects which are distinct from each other. Sets are generally denoted by capital letters A, B, C, \dots etc. and the elements of the set by small letters a, b, c, \dots etc. If a is an element of a set A , then we write $a \in A$ and say a belongs to A . If a does not belong to A then we write $a \notin A$. e.g. the collection of first five prime natural numbers is a set containing the elements 2, 3, 5, 7, 11.

NOTATION

Suppose S is a set (i.e., a collection of objects enjoying a certain property).

1. The symbol \in stands for "belongs to" or "is a member of": $a \in S$ means a belongs to S or is a member of S .
2. The symbol \notin stands for "does not belong to". $a \notin S$ means a is not a member of S .
3. The symbols \exists and \exists stand for "there exists" and "such that", respectively. Generally, these two symbols go together, for example, \exists real number x $x^2 = 2$.
4. The symbol \forall stands for "for all" or "for every". For example, " x^2 is a positive integer \forall non-zero integer x ".
5. If S is the set of all objects satisfying a property P , then S is represented as $S = \{x \mid x \text{ has property } P\}$.
6. The set having no objects is called the *empty set* or *null set* and is denoted by " \emptyset ".
7. If a set has only a finite number of members x_1, x_2, \dots, x_n , then we write $S = \{x_1, x_2, \dots, x_n\}$.
8. The symbol \Rightarrow is read as "implies". Thus, $a \Rightarrow b$ is read as " a implies b ". The symbol \Leftrightarrow is read as "implies and is implied by" or as "if and only if". Thus, $a \Leftrightarrow b$ is read as " a implies and implied by b " or "an if and only if b ".

SOME IMPORTANT NUMBER SETS

- N = Set of all-natural numbers
 $= \{1, 2, 3, 4, \dots\}$
 W = Set of all whole numbers
 $= \{0, 1, 2, 3, \dots\}$
 Z or I set of all integers
 $= \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$
 Z^+ = Set of all +ve integers
 $= \{1, 2, 3, \dots\} = N$
 Z^- = Set of all -ve integers
 $= \{-1, -2, -3, \dots\}$

Z_0 = The set of all non-zero integers
 $= \{\pm 1, \pm 2, \pm 3, \dots\}$

Q = The set of all rational numbers
 $= \left\{ \frac{p}{q} : p, q \in I, q \neq 0 \right\}$

R = The set of all real numbers

$R - Q$ = The set of all irrational numbers

e.g. $\sqrt{2}, \sqrt{3}, \sqrt{5}, \dots, \pi, e, \log 2$ etc. are all irrational numbers.

METHODS TO WRITE A SET

- (i) **Roster Method or Tabular Method** : In this method a set is described by listing elements, separated by commas and enclose them by curly brackets. Note that while writing the set in roster form, an element is not generally repeated e.g. the set of letters of word SCHOOL may be written as $\{S, C, H, O, L\}$.
- (ii) **Set builder form (Property Method)** : In this we write down a property or rule which gives us all the element of the set.
 $A = \{x : P(x)\}$ where $P(x)$ is the property by which $x \in A$ and colon ($:$) stands for 'such that'.

Example 5.1

Express set $A = \{x : x \in N \text{ and } x = 2^n \text{ for } n \in N\}$ in roster form

Solution : $A = \{2, 4, 8, 16, \dots\}$

Example 5.2

Express set $B = \{x^3 : x < 5, x \in W\}$ in roster form

Solution : $B = \{0, 1, 8, 27, 64\}$

Example 5.3

Express set $A = \{0, 7, 26, 63, 124\}$ in set builder form

Solution : $A = \{x : x = n^3 - 1, n \in N, 1 \leq n \leq 5\}$

- (iii) **Arrow-diagram form** : In this form, we draw an arrow corresponding to each ordered pair (a, b) in R from the first component a to the second component b . For example, consider the relation R given as below. Then R can be represented as shown in Figure. There are nine arrows corresponding to nine ordered pairs belonging to the relation R .
 $R = \{(2, 2), (2, 4), (2, 6), (2, 8), (2, 10), (3, 6), (4, 4), (4, 8), (5, 10)\}$

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**Sherman Folland, Allen C.
Goodman, Miron Stano**



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Table of Contents Fundamentals Of Mathematics 8ed Student

1. Understanding the eBook Fundamentals Of Mathematics 8ed Student
 - The Rise of Digital Reading Fundamentals Of Mathematics 8ed Student
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Mathematics 8ed Student
 - 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 Fundamentals Of Mathematics 8ed Student
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Mathematics 8ed Student
 - Personalized Recommendations
 - Fundamentals Of Mathematics 8ed Student User Reviews and Ratings
 - Fundamentals Of Mathematics 8ed Student and Bestseller Lists
5. Accessing Fundamentals Of Mathematics 8ed Student Free and Paid eBooks
 - Fundamentals Of Mathematics 8ed Student Public Domain eBooks
 - Fundamentals Of Mathematics 8ed Student eBook Subscription Services
 - Fundamentals Of Mathematics 8ed Student Budget-Friendly Options
6. Navigating Fundamentals Of Mathematics 8ed Student eBook Formats

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