

Relations and Functions Overview



Chapter 2: Relations and Functions

1. Introduction

2. Cartesian Products of Sets

- Definition and Examples
- Properties

3. Relations

- Definition of Relation
- Domain, Codomain, and Range
- Types of Relations
- Representation of Relations
- Operations on Relations

4. Functions

- Definition of a Function
- Types of Functions
- Domain and Range of a Function
- Graphs of Functions
- Operations on Functions

5. Some Important Functions

- Identity Function
- Constant Function
- Polynomial Function
- Rational Function
- Modulus Function
- Signum Function

6. Summary

7. Exercises

- Problems and Solutions