

RELATIONS AND FUNCTIONS

1.1 Overview


1.1.1 Relation

A relation R from a non-empty set A to a non empty set B is a subset of the Cartesian product $A \times B$. The set of all first elements of the ordered pairs in a relation R from a set A to a set B is called the domain of the relation R . The set of all second elements in a relation R from a set A to a set B is called the range of the relation R . The whole set B is called the codomain of the relation R . Note that range is always a subset of codomain.

1.1.2 Types of Relations

A relation R in a set A is subset of $A \times A$. Thus empty set ϕ and $A \times A$ are two extreme relations.

- (i) A relation R in a set A is called empty relation, if no element of A is related to any element of A , i.e., $R = \phi \subset A \times A$.
- (ii) A relation R in a set A is called universal relation, if each element of A is related to every element of A , i.e., $R = A \times A$.
- (iii) A relation R in A is said to be reflexive if aRa for all $a \in A$, R is symmetric if $aRb \Rightarrow bRa$, $\forall a, b \in A$ and it is said to be transitive if aRb and $bRc \Rightarrow aRc$ $\forall a, b, c \in A$. Any relation which is reflexive, symmetric and transitive is called an equivalence relation.

 **Note:** An important property of an equivalence relation is that it divides the set into pairwise disjoint subsets called equivalent classes whose collection is called a partition of the set. Note that the union of all equivalence classes gives the whole set.

1.1.3 Types of Functions

- (i) A function $f: X \rightarrow Y$ is defined to be one-one (or injective), if the images of distinct elements of X under f are distinct, i.e.,

$$x_1, x_2 \in X, f(x_1) = f(x_2) \Rightarrow x_1 = x_2.$$
- (ii) A function $f: X \rightarrow Y$ is said to be onto (or surjective), if every element of Y is the image of some element of X under f , i.e., for every $y \in Y$ there exists an element $x \in X$ such that $f(x) = y$.

Grade Twelve Caps Maths Exemplar

David Kirk



Grade Twelve Caps Maths Exemplar:

This book delves into Grade Twelve Caps Maths Exemplar. Grade Twelve Caps Maths Exemplar is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Grade Twelve Caps Maths Exemplar, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Grade Twelve Caps Maths Exemplar
 - Chapter 2: Essential Elements of Grade Twelve Caps Maths Exemplar
 - Chapter 3: Grade Twelve Caps Maths Exemplar in Everyday Life
 - Chapter 4: Grade Twelve Caps Maths Exemplar in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Grade Twelve Caps Maths Exemplar. The first chapter will explore what Grade Twelve Caps Maths Exemplar is, why Grade Twelve Caps Maths Exemplar is vital, and how to effectively learn about Grade Twelve Caps Maths Exemplar.
3. In chapter 2, this book will delve into the foundational concepts of Grade Twelve Caps Maths Exemplar. This chapter will elucidate the essential principles that need to be understood to grasp Grade Twelve Caps Maths Exemplar in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of Grade Twelve Caps Maths Exemplar in specific contexts. This chapter will explore how Grade Twelve Caps Maths Exemplar is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Grade Twelve Caps Maths Exemplar. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Grade Twelve Caps Maths Exemplar.

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