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GROUPS

1.1 Some Sets of Numbers

The reader is familiar with the following sets of numbers :

1. $\mathbf{N} = \{1, 2, 3, \dots\}$
is the set of *natural numbers*.
2. \mathbf{I} or \mathbf{J} or $\mathbf{Z} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$
is the set of *integers*.
 \mathbf{Z}^+ denotes the set of all non-negative integers.
3. $\mathbf{E} = \{\dots, -6, -4, -2, 0, 2, 4, 6, \dots\}$
is the set of *even integers*.
4. $\mathbf{Q} = \left\{ \frac{m}{n} : m, n \in \mathbf{Z} \text{ and } n \neq 0 \right\}$
is the set of *rational numbers*.
5. \mathbf{R} is the set of *real numbers*. \mathbf{R} contains all rational and irrational numbers.
 \mathbf{R}^+ denotes the set of all non-negative real numbers.
6. $\mathbf{C} = \{x + iy : x, y \in \mathbf{R} \text{ and } i = \sqrt{-1}\}$
is the set of all *complex numbers*.

1.2 Mappings

If S and T are two non-empty sets, then a mapping from S to T is a rule, written as $f: S \rightarrow T$, which associates to each element $x \in S$, a unique element $y \in T$. The element y is called the *image* of x under f and is written as $y = f(x)$. The element x is called a *pre-image* of y . The set S is called the *domain* of f , and T its *co-domain*.

A mapping $f: S \rightarrow T$ is called *one-to-one*, if

$$x \neq y \Rightarrow f(x) \neq f(y) : x, y \in S.$$

Or

$$f(x) = f(y) \Rightarrow x = y : x, y \in S.$$

A mapping $f: S \rightarrow T$ is called *onto*, if for each $t \in T$, there exists some $s \in S$ such that $f(s) = t$.

Two mappings $f: S \rightarrow T$ and $g: S \rightarrow T$ are said to be *equal*, if

$$f(x) = g(x) \text{ for each } x \in S.$$

The mapping $i: S \rightarrow S$ defined as $i(x) = x \forall x \in S$ is called the *identity mapping*.

(1)

Abstract Algebra By R Kumar

Christian Drosten



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