

M1: SETS → A well defined collection of distinct elements.

TYPES

- * Empty - $\emptyset$
- * Singleton - $n(A) = 1$
- * Finite - Obvious
- * Infinite - Obvious

REPRESENTATION

- * Set Builder:
eg → $\{n: n \in \mathbb{N}, n < 4\} = \{1, 2, 3\}$
- * Roster Method:
eg → $\{1, 2, 3, 4\}$

Symbols & Notation

- $\cup$ - Union
- $\cap$ - Intersection
- ∞ - Infinity
- $\emptyset$ - Phi (Empty Set)
- $\in$ - Belongs to
- $\subset$ - Subset of
- $\exists$ - There exists
- $\nexists$ - Doesn't exist
- $\nsubseteq$ - Doesn't belong
- $\not\subset$ - Not subset
- $\neq$ - Not equal
- $\therefore$ - Such that
- iff - if & only if
- $\mathbb{N}$ - Natural Nos.
- $\mathbb{W}$ - Whole Nos.
- $\mathbb{Z}$ - Integers
- $\mathbb{Q}$ - Rational No.
- $\mathbb{R}$ - Real Nos.
- $\mathbb{T}/\mathbb{Q}$ - Irrational Nos.

PROPERTIES OF SETS

- * Order of elements:
Order doesn't matter
- * Repetition
All elements must be distinct. $\{1, 1, 22, 1\} = \{1, 22\}$
- * Cardinality
No. of elements in a set

RELATIONS OF SETS

- * Subset
 $\forall A \subset B$, all elements of A are in B. $\forall a \in A, \forall b \in B$
- * Proper Subset
 $A \subset B$, but $A \neq B$.
($\forall a \in A, \forall b \in B, \forall b \in B, \forall b \notin A$)
- * Improper Subset
 $A \subset B, A = B$
- * Universal Set
Set that contains all sets under consideration
- * Disjoint Sets
When $A \cap B = \emptyset$
- * Power Set $P(A)$
Set of all Subsets.
 $n(P(A)) = 2^{\text{cardinality}}$
 $n(P(\{1, 2, 3, 4\})) = 2^4 = 16$

OPERATIONS ON SETS

- * Union $(A \cup B)$
Combining 2 sets to form a new one without repetition.
- * Intersection $(A \cap B)$
Sets with common elements
- * Difference $(A - B)$
 $A - B =$ Set with all elements of A but not B
- * Symmetric Difference
 $A \Delta B =$ Set with all elements of A & B except the ones in $A \cap B$.
- * Complement
 $A' =$ Everything not in A.
 $A' \cup A = U$

LAWS

Idempotent

$$A \cup \emptyset = A$$

$$A \cap U = A$$

Identity

$$A \cup A = A$$

$$A \cap A = A$$

Commutative

$$A \cup B = B \cup A$$

$$A \cap B = B \cap A$$

Associative

$$(A \cup B) \cup C = A \cup (B \cup C)$$

$$(A \cap B) \cap C = A \cap (B \cap C)$$

Distributive

$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$

$$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$$

De Morgan's

$$(A \cup B)' = A' \cap B'$$

$$(A \cap B)' = A' \cup B'$$

Cardinality laws

$$① n(A) + n(B) - n(A \cap B) = n(A \cup B)$$

$$② n(A - B) = n(A) - n(A \cap B)$$

$$③ n(A \Delta B) = n(A) + n(B) - 2n(A \cap B)$$

$$④ n(A \cup B \cup C) = n(A) + n(B) + n(C) - [n(A \cap B) + n(A \cap C) + n(B \cap C)] + n(A \cap B \cap C)$$

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MATH 0005 Elizabeth Gray,2013

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