

# Discrete Mathematics Cheat Sheet

## Set Theory

### Definitions

**Set Definition:** A set is a collection of objects called elements



**Visual Representation:**

**List Notation:**  $\{1, 2, 3\}$

### Characteristics

Sets can be finite or infinite.

**Finite:**  $A = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

**Infinite:**  $\mathbb{Z}^+ = \{1, 2, 3, 4, \dots\}$

*Dots represent an implied pattern that continues infinitely*

**Repeated Elements are only listed once:**  $\{a, b, a, c, b, a\} = \{a, b, c\}$



**Sets are Unordered:**

$$\{3, 2, 1\} = \{1, 2, 3\} = \{2, 1, 3\}$$

### Common Sets

**Natural Numbers:**  $\mathbb{N} = \{0, 1, 2, 3, \dots\}$

**Positive Integers:**  $\mathbb{Z}^+ = \{1, 2, 3, \dots\}$

**Integers:**  $\mathbb{Z} = \{\dots, -2, -1, 0, 1, 2, \dots\}$

**Rational Numbers:**  $\mathbb{Q} = \{\dots, \frac{1}{2}, \frac{1}{3}, \frac{2}{3}, \frac{3}{2}, \dots\}$

### Elements and Cardinality

**Elements** are the things contained in the set.

Let  $C = \{\text{Yellow, Blue, Red}\}$

$\text{Yellow} \in C$ : Yellow is an element of  $C$ .

$\text{Green} \notin C$ : Green is not an element of  $C$ .

**Cardinality** refers to the number of elements in the set.

$|C| = 3$ : The **Cardinality (size)** of  $C$  is 3.

### The Empty Set

$\emptyset = \{\}$ : The empty set is a set with no elements.

$|\emptyset| = |\{\}| = 0$ : The cardinality of the empty set is 0.

$\{\emptyset\} \neq \emptyset$ .

$\{\emptyset\} = \{\{\}\}$

$|\{\emptyset\}| = 1$ : The set contains the empty set.

### Set Builder Notation

Elements in the list are defined as variables.

$X = \{\text{expression} \mid \text{rule}\}$

If  $\text{Desk} = \{\text{drink, laptop, microphone}\}$

Set Builder Notation defines the set as:

$\text{Desk} = \{x \mid x \text{ is on the desk}\}$

Let  $E = \{2n \mid n \in \mathbb{Z}\}$

**Reads as:** The set of all things with form  $2n$  such that  $n$  is an element of  $\mathbb{Z}$ .

$2n$  is an expression that defines the **form** of the elements.

$n \in \mathbb{Z}$  defines a rule for elements appearing in the set.

$\mid$  is read "such that" and separates the expression from the rule.

**Examples:**

$E = \{2n \mid n \in \mathbb{Z}\}$ : A set containing even integers.

$\mathbb{Q} = \{\frac{m}{n} \mid m, n \in \mathbb{Z}, n \neq 0\}$ : A set containing rational numbers ( $m$  and  $n$  are integers and  $n$  is not zero).

### Ordered Pairs

An **Ordered Pair** is any list of things enclosed in parentheses:  $(x, y)$ .

$(1, 2) \neq (2, 1)$

### Cartesian Products

**AKA Cross Product**

Given 2 sets,  $A$  and  $B$ , a Cartesian Product is denoted by  $A \times B$ .

The Cartesian Product is a set of Ordered Pairs where the first element comes from  $A$  and the second element comes from  $B$ .

$$A \times B = \{(a, b) \mid a \in A, b \in B\}$$

Let  $X = \{0, 1, 2\}$  and  $Y = \{0, 1\}$

$$X \times Y = \{(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1)\}$$

$$Y \times X = \{(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2)\}$$

**3-tuple:**  $A \times B \times C = \{(a, b, c) \mid a \in A, b \in B, c \in C\}$

**n-tuple:**

$$A_1 \times A_2 \times \dots \times A_n = \{(a_1, a_2, \dots, a_n) \mid a_1 \in A_1, a_2 \in A_2, \dots, a_n \in A_n\}$$

$$\emptyset \times A = \emptyset$$

### Cartesian Product Cardinality

The cardinality of a cross product is the product of the cardinalities of each set.

If  $|A| = m$  and  $|B| = n$ , then  $|A \times B| = m \times n$

Let  $|X| = 3$  and  $|Y| = 2$ .

$$|X \times Y| = 3 \times 2 = 6$$

$$|\emptyset| \times |A| = 0$$

### Subsets

$A$  is a subset of  $B$  if every element in  $A$  is also in  $B$ .



$A \subseteq B$ :  $A$  is a subset of  $B$ .

$$\{a, b\} \subseteq \{a, b, c\}$$

$$\{c, d\} \subseteq \{c, d\}$$

$\{a\} \not\subseteq \{\{a\}\}$ : The element  $a$  is not an element of the second set.

$\emptyset \subseteq \{x, y, z\}$ : The empty set is a subset of every set.

### Proper Subsets

$A$  is a **proper subset** of  $B$  if every element in  $A$  is also in  $B$  and  $A$  is smaller than  $B$ .



$A \subset B$ :  $A$  is a proper subset of  $B$ .

$$\{a, b\} \subset \{a, b, c\}$$

$$\{c, d\} \not\subset \{c, d\}$$

$$\emptyset \subset \{x, y, z\}$$

### Power Sets

A **Power Set** of a set  $A$  is the set containing all possible subsets of  $A$ .

Let  $A = \{a, b\}$

$$\mathcal{P}(A) = \{\emptyset, \{a\}, \{b\}, \{a, b\}\}$$

$\mathcal{P}(\emptyset) = \emptyset$

### Power Sets Cardinality

If  $|A| = n$ , then  $|\mathcal{P}(A)| = 2^n$

Let  $|A| = 2$

$$|\mathcal{P}(A)| = 2^2 = 4$$

### Set Operations

#### Universes

Every set  $A$  exists within some universe  $U$ .



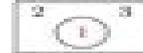
#### Complement

The complement of a set  $A$  is everything outside of  $A$  that is in the Universe.

$$A^c \text{ (or } \bar{A}) = \{a \in U \text{ and } a \notin A\}$$

Let  $A = \{1\}$  and  $U = \{1, 2, 3\}$ .

$$A^c = \{2, 3\}$$



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**S. B. Rao**



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