

1. What is a function?

1.1 Definition

- A function f from a set A to a set B is a rule that assigns to each element a in A exactly one element b in B .
- Notation: $f: A \rightarrow B$
- Domain: The set A is the domain of f .
- Range: The set of all elements b in B such that $b = f(a)$ for some a in A is the range of f .
- Image: The image of an element a in A under f is the element b in B such that $b = f(a)$.
- Pre-image: The pre-image of an element b in B under f is the set of all elements a in A such that $b = f(a)$.
- Composition: If $f: A \rightarrow B$ and $g: B \rightarrow C$ are functions, then the composition of f and g , denoted $g \circ f$, is a function from A to C defined by $(g \circ f)(a) = g(f(a))$.
- Identity function: The identity function on a set A , denoted id_A , is the function from A to A defined by $\text{id}_A(a) = a$.
- Inverse function: If $f: A \rightarrow B$ is a function, then an inverse function $f^{-1}: B \rightarrow A$ is a function from B to A such that $f^{-1}(f(a)) = a$ for all a in A and $f(f^{-1}(b)) = b$ for all b in B .

1.2 Examples

- The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = 2x + 1$ is a linear function.
- The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = x^2$ is a quadratic function.

1.3 Properties

- Injective: A function $f: A \rightarrow B$ is injective if and only if $f(a) = f(b)$ implies $a = b$.
- Surjective: A function $f: A \rightarrow B$ is surjective if and only if for every b in B there exists an a in A such that $b = f(a)$.
- Bijective: A function $f: A \rightarrow B$ is bijective if and only if it is both injective and surjective.
- Monotonic: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is monotonic if it is either increasing or decreasing.
- Continuous: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is continuous if it has no jumps or breaks.
- Differentiable: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is differentiable if it has a unique tangent line at every point.
- Convex: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is convex if its graph lies above any tangent line.
- Concave: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is concave if its graph lies below any tangent line.
- Periodic: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is periodic if it repeats its values at regular intervals.
- Odd: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is odd if $f(-x) = -f(x)$.
- Even: A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is even if $f(-x) = f(x)$.

1.4 Exercises

- 1.1
- 1.2

2. Set Theory

2.1 Definition

- A set is a collection of objects, called elements or members, that are distinguished by their properties.
- Notation: $\{ \}$
- Subset: A set A is a subset of a set B , denoted $A \subseteq B$, if every element of A is also an element of B .
- Proper subset: A set A is a proper subset of a set B , denoted $A \subset B$, if $A \subseteq B$ and $A \neq B$.
- Intersection: The intersection of two sets A and B , denoted $A \cap B$, is the set of all elements that are in both A and B .
- Union: The union of two sets A and B , denoted $A \cup B$, is the set of all elements that are in either A or B .
- Disjoint: Two sets A and B are disjoint if $A \cap B = \emptyset$.
- Complement: The complement of a set A , denoted A^c , is the set of all elements that are not in A .
- Power set: The power set of a set A , denoted 2^A , is the set of all subsets of A .
- Cartesian product: The Cartesian product of two sets A and B , denoted $A \times B$, is the set of all ordered pairs (a, b) such that a is in A and b is in B .

2.2 Examples

- The set of natural numbers \mathbb{N} is a subset of the set of integers \mathbb{Z} .
- The set of even numbers is a subset of the set of integers.

2.3 Properties

- Associative: $(A \cap B) \cap C = A \cap (B \cap C)$
- Commutative: $A \cap B = B \cap A$
- Distributive: $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
- De Morgan's laws: $(A \cup B)^c = A^c \cap B^c$ and $(A \cap B)^c = A^c \cup B^c$
- Idempotent: $A \cap A = A$ and $A \cup A = A$
- Identity: $A \cap \emptyset = \emptyset$ and $A \cup \emptyset = A$
- Universal set: $A \cap U = A$ and $A \cup U = U$
- Complement: $A \cap A^c = \emptyset$ and $A \cup A^c = U$
- Power set: $2^{\emptyset} = \{ \emptyset \}$
- Cartesian product: $(A \times B) \cap (C \times D) = (A \cap C) \times (B \cap D)$
- Disjoint: $A \cap B = \emptyset$
- Subset: $A \subseteq B$
- Proper subset: $A \subset B$
- Intersection: $A \cap B$
- Union: $A \cup B$
- Disjoint: $A \cap B = \emptyset$
- Complement: A^c
- Power set: 2^A
- Cartesian product: $A \times B$
- Disjoint: $A \cap B = \emptyset$
- Subset: $A \subseteq B$
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- Intersection: $A \cap B$
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- Complement: A^c
- Power set: 2^A
- Cartesian product: $A \times B$

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