

1. What is a function?

1.1 Definition

- 1. A function f maps elements from a set A to a set B .
- 2. The domain of f is A and the codomain is B .
- 3. For every $x \in A$, there is exactly one $y \in B$ such that $f(x) = y$.
- 4. The image of x under f is $f(x)$.
- 5. The preimage of y under f is the set of all $x \in A$ such that $f(x) = y$.
- 6. A function f is injective if $f(x) = f(y) \implies x = y$.
- 7. A function f is surjective if for every $y \in B$, there is an $x \in A$ such that $f(x) = y$.
- 8. A function f is bijective if it is both injective and surjective.
- 9. The composition of two functions $f: A \rightarrow B$ and $g: B \rightarrow C$ is a function $g \circ f: A \rightarrow C$ defined by $(g \circ f)(x) = g(f(x))$.
- 10. The identity function on a set A is the function $\text{id}_A: A \rightarrow A$ defined by $\text{id}_A(x) = x$.

1.2 Examples

- 1. The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = 2x + 1$ is bijective.
- 2. The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = x^2$ is not injective.

1.3 Properties

- 1. The composition of two bijective functions is bijective.
- 2. The composition of two injective functions is injective.
- 3. The composition of two surjective functions is surjective.
- 4. A function $f: A \rightarrow B$ is bijective if and only if it has an inverse function $f^{-1}: B \rightarrow A$ such that $f^{-1}(f(x)) = x$ for all $x \in A$ and $f(f^{-1}(y)) = y$ for all $y \in B$.
- 5. The inverse of a bijective function $f: A \rightarrow B$ is the function $f^{-1}: B \rightarrow A$ defined by $f^{-1}(y) = x$ if and only if $f(x) = y$.
- 6. The inverse of a bijective function $f: A \rightarrow B$ is unique.
- 7. The inverse of a bijective function $f: A \rightarrow B$ is the only function $g: B \rightarrow A$ such that $g \circ f = \text{id}_A$ and $f \circ g = \text{id}_B$.
- 8. The inverse of a bijective function $f: A \rightarrow B$ is the only function $g: B \rightarrow A$ such that $g \circ f = \text{id}_A$ and $f \circ g = \text{id}_B$.
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- 10. The inverse of a bijective function $f: A \rightarrow B$ is the only function $g: B \rightarrow A$ such that $g \circ f = \text{id}_A$ and $f \circ g = \text{id}_B$.

1.4 Exercises

1.4.1

1.4.2

2. Sets

- 1. A set is a collection of objects.
- 2. The elements of a set S are denoted by $x \in S$.
- 3. The power set of a set S is the set of all subsets of S , denoted by 2^S .
- 4. The Cartesian product of two sets A and B is the set of all ordered pairs (a, b) such that $a \in A$ and $b \in B$.
- 5. The union of two sets A and B is the set of all elements that are in A or in B .
- 6. The intersection of two sets A and B is the set of all elements that are in both A and B .
- 7. The difference of two sets A and B is the set of all elements that are in A but not in B .
- 8. The symmetric difference of two sets A and B is the set of all elements that are in either A or B but not in both.
- 9. The complement of a set A is the set of all elements that are not in A .
- 10. The universal set is the set of all elements under consideration.

3. Relations

3.1 Definition

- 1. A relation R on a set A is a subset of $A \times A$.
- 2. The domain of R is the set of all $x \in A$ such that $(x, y) \in R$ for some $y \in A$.
- 3. The range of R is the set of all $y \in A$ such that $(x, y) \in R$ for some $x \in A$.
- 4. A relation R is reflexive if $(x, x) \in R$ for all $x \in A$.
- 5. A relation R is symmetric if $(x, y) \in R \implies (y, x) \in R$.
- 6. A relation R is transitive if $(x, y) \in R$ and $(y, z) \in R \implies (x, z) \in R$.
- 7. A relation R is an equivalence relation if it is reflexive, symmetric, and transitive.
- 8. The equivalence classes of a relation R are the sets of elements that are related to each other.
- 9. The quotient set of a set A by a relation R is the set of all equivalence classes of R .
- 10. The quotient set of a set A by a relation R is denoted by A/R .

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