

1. What is a function?

1.1 Definition

- 1. A function f is a mapping from a set A to a set B .
- 2. The domain of f is the set A .
- 3. The codomain of f is the set B .
- 4. The image of x under f is $f(x)$.
- 5. The preimage of y under f is the set of all x such that $f(x) = y$.
- 6. A function f is injective if and only if $f(x) = f(y) \implies x = y$.
- 7. A function f is surjective if and only if for every $y \in B$, there exists an $x \in A$ such that $f(x) = y$.
- 8. A function f is bijective if and only 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 $f(x) = x^2$ is surjective but not injective.
- 2. The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = x$ is bijective.

1.3 Properties

- 1. The composition of two functions is associative.
- 2. The identity function is the identity element for composition.
- 3. A function $f: A \rightarrow B$ is invertible if and only if it is bijective.
- 4. If $f: A \rightarrow B$ is a function, then $f \circ \text{id}_A = f$ and $\text{id}_B \circ f = f$.
- 5. If $f: A \rightarrow B$ is a function, then $f \circ f^{-1} = \text{id}_B$ and $f^{-1} \circ f = \text{id}_A$.
- 6. If $f: A \rightarrow B$ is a function, then f is injective if and only if $f^{-1}(f(x)) = \{x\}$ for all $x \in A$.
- 7. If $f: A \rightarrow B$ is a function, then f is surjective if and only if $f^{-1}(y) \neq \emptyset$ for all $y \in B$.
- 8. If $f: A \rightarrow B$ is a function, then f is bijective if and only if $f^{-1}(y) = \{x\}$ for all $y \in B$.
- 9. If $f: A \rightarrow B$ is a function, then f is invertible if and only if $f^{-1}(y) = \{x\}$ for all $y \in B$.
- 10. If $f: A \rightarrow B$ is a function, then f is invertible if and only if $f \circ f^{-1} = \text{id}_B$ and $f^{-1} \circ f = \text{id}_A$.

1.4 Exercises

- 1. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2$. Is f injective? Is f surjective? Is f bijective?
- 2. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x$. Is f injective? Is f surjective? Is f bijective?
- 3. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + 1$. Is f injective? Is f surjective? Is f bijective?
- 4. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 - 1$. Is f injective? Is f surjective? Is f bijective?
- 5. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + x$. Is f injective? Is f surjective? Is f bijective?
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- 7. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + x + 1$. Is f injective? Is f surjective? Is f bijective?
- 8. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 - x + 1$. Is f injective? Is f surjective? Is f bijective?
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2.

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- 2. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x$. Is f injective? Is f surjective? Is f bijective?

2.1 Definition

- 1. A function f is a mapping from a set A to a set B .
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2.2 Examples

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

2.3 Properties

- 1. The composition of two functions is associative.
- 2. The identity function is the identity element for composition.
- 3. A function $f: A \rightarrow B$ is invertible if and only if it is bijective.
- 4. If $f: A \rightarrow B$ is a function, then $f \circ \text{id}_A = f$ and $\text{id}_B \circ f = f$.
- 5. If $f: A \rightarrow B$ is a function, then $f \circ f^{-1} = \text{id}_B$ and $f^{-1} \circ f = \text{id}_A$.
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- 11. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2$. Is f injective? Is f surjective? Is f bijective?
- 12. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x$. Is f injective? Is f surjective? Is f bijective?
- 13. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + 1$. Is f injective? Is f surjective? Is f bijective?
- 14. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 - 1$. Is f injective? Is f surjective? Is f bijective?
- 15. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + x$. Is f injective? Is f surjective? Is f bijective?
- 16. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 - x$. Is f injective? Is f surjective? Is f bijective?
- 17. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + x + 1$. Is f injective? Is f surjective? Is f bijective?
- 18. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 - x + 1$. Is f injective? Is f surjective? Is f bijective?
- 19. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + x + 1$. Is f injective? Is f surjective? Is f bijective?
- 20. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 - x + 1$. Is f injective? Is f surjective? Is f bijective?

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