

1. What is a function?

1.1 Definition

- 1. 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 .
- 2. The set A is called the domain of f , and the set B is called the codomain of f .
- 3. The image of a under f is denoted by $f(a)$.
- 4. The range of f is the set of all elements b in B such that $b = f(a)$ for some a in A .
- 5. A function f is called injective if $f(a) = f(b)$ implies $a = b$.
- 6. A function f is called surjective if for every b in B , there exists an a in A such that $f(a) = b$.
- 7. A function f is called bijective if it is both injective and surjective.
- 8. A function f is called a mapping from A to B .
- 9. A function f is called a transformation if it maps a set to itself.
- 10. A function f is called a permutation if it is a bijective transformation.

1.2 Examples

- 1. The identity function $f(x) = x$ is a bijective function from \mathbb{R} to \mathbb{R} .
- 2. The constant function $f(x) = c$ is a function from \mathbb{R} to \mathbb{R} .

1.3 Properties

- 1. The composition of two functions is a function.
- 2. The composition of two bijective functions is bijective.
- 3. The composition of two injective functions is injective.
- 4. The composition of two surjective functions is surjective.
- 5. The composition of a surjective function and an injective function is bijective.
- 6. The composition of an injective function and a surjective function is bijective.
- 7. The composition of a bijective function and a bijective function is bijective.
- 8. The composition of a bijective function and an injective function is injective.
- 9. The composition of a bijective function and a surjective function is surjective.
- 10. The composition of a bijective function and a bijective function is bijective.

1.4 Exercises

1.5 Solutions

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- 1. The identity function $f(x) = x$ is a bijective function from \mathbb{R} to \mathbb{R} .
- 2. The constant function $f(x) = c$ is a function from \mathbb{R} to \mathbb{R} .
- 3. The function $f(x) = x^2$ is a function from \mathbb{R} to \mathbb{R} .
- 4. The function $f(x) = x^3$ is a bijective function from \mathbb{R} to \mathbb{R} .
- 5. The function $f(x) = \sin(x)$ is a function from \mathbb{R} to \mathbb{R} .
- 6. The function $f(x) = \cos(x)$ is a function from \mathbb{R} to \mathbb{R} .
- 7. The function $f(x) = e^x$ is a function from \mathbb{R} to \mathbb{R} .
- 8. The function $f(x) = \ln(x)$ is a function from \mathbb{R} to \mathbb{R} .
- 9. The function $f(x) = \log(x)$ is a function from \mathbb{R} to \mathbb{R} .
- 10. The function $f(x) = \exp(x)$ is a function from \mathbb{R} to \mathbb{R} .

2.1 Examples

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