

1. What is a function?

Definition

- A function is a mapping from a set of inputs to a set of outputs.
- Each input is mapped to exactly one output.
- The set of inputs is called the domain.
- The set of outputs is called the codomain.
- The output of a function for a given input is called the image of that input.
- A function can be represented by a graph, a table, or a formula.
- Functions are used to model relationships between variables.
- Functions are a fundamental concept in mathematics and science.
- Functions are used to describe the behavior of systems.
- Functions are used to solve problems.

Example

- The function $f(x) = x^2$ maps the input x to the output x^2 .
- The function $f(x) = 2x + 1$ maps the input x to the output $2x + 1$.

Properties

- Injective: A function is injective if no two different inputs map to the same output.
- Surjective: A function is surjective if every output has at least one input that maps to it.
- Bijective: A function is bijective if it is both injective and surjective.
- Continuous: A function is continuous if its graph is a single unbroken curve.
- Differentiable: A function is differentiable if it has a unique tangent line at every point.
- Linear: A function is linear if its graph is a straight line.
- Quadratic: A function is quadratic if its graph is a parabola.
- Cubic: A function is cubic if its graph is a curve that is symmetric about the origin.
- Exponential: A function is exponential if its graph is a curve that grows or shrinks rapidly.
- Logarithmic: A function is logarithmic if its graph is a curve that grows or shrinks slowly.

Conclusion

- Functions are a fundamental concept in mathematics and science.

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