

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 image of a function is the set of all outputs.
- A function can be represented by a graph, a table, or a formula.
- Functions are used to model real-world phenomena.
- Functions are a fundamental concept in mathematics.
- Functions are used in many areas of science and engineering.
- Functions are used in computer science to model algorithms.

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.

Examples

- The function $f(x) = 2x + 1$ is a linear function.
- The function $f(x) = x^2$ is a quadratic function.
- The function $f(x) = \sin(x)$ is a trigonometric function.
- The function $f(x) = \log(x)$ is a logarithmic function.
- The function $f(x) = e^x$ is an exponential function.
- The function $f(x) = \frac{1}{x}$ is a rational function.
- The function $f(x) = \sqrt{x}$ is a square root function.
- The function $f(x) = \frac{1}{x^2}$ is a reciprocal function.
- The function $f(x) = \frac{1}{x^3}$ is a reciprocal function.
- The function $f(x) = \frac{1}{x^4}$ is a reciprocal function.

Conclusion

Functions are a fundamental concept in mathematics.

2. What is a set?

- A set is a collection of objects.
- The objects in a set are called elements.
- A set can be finite or infinite.
- A set can be empty or non-empty.
- A set can be a subset of another set.
- A set can be a proper subset of another set.
- A set can be a superset of another set.
- A set can be a universal set.
- A set can be a Venn diagram.
- A set can be a power set.

Properties

- Commutative: $A \cup B = B \cup A$
- Associative: $(A \cup B) \cup C = A \cup (B \cup C)$
- Distributive: $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
- De Morgan's Laws: $\overline{A \cap B} = \overline{A} \cup \overline{B}$ and $\overline{A \cup B} = \overline{A} \cap \overline{B}$
- Identity: $A \cup \emptyset = A$ and $A \cap U = A$
- Complement: $A \cup \overline{A} = U$ and $A \cap \overline{A} = \emptyset$
- Subset: $A \subseteq B$ if and only if $A \cap B = A$
- Power Set: The power set of a set A is the set of all subsets of A .
- Venn Diagram: A Venn diagram is a diagram that shows the relationship between two or more sets.
- Universal Set: The universal set is the set of all elements under consideration.

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