

# 4 2 even and odd functions pre calculus

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## Odd and Even Functions: A Comprehensive Guide

### Definition and Classification

What are odd and even functions in precalculus and calculus?

- **Odd Function:** A function that, when reflected about the origin, has the same graph.
- **Even Function:** A function that, when reflected about the origin, has the same graph but with a reversed orientation (flipped over).

### Algebraic Analysis

How to find out if a function is even or odd?

- **Algebraically:** Substitute  $-x$  into the function and simplify.
- **Odd Function:**  $f(-x) = -f(x)$
- **Even Function:**  $f(-x) = f(x)$

### Graphical Methods

How to determine even and odd functions graphically?

- **Odd Function:** Symmetric about the origin
- **Even Function:** Symmetric about the y-axis

### Specific Examples

**What are the four odd functions?**

- $y = x$
- $y = x^3$
- $y = x^?$
- $y = \tan(x)$

**Examples of even numbers calculus:**

- $y = x^2$
- $y = (x + 2)^2$
- $y = \cos(x)$

**Examples of odd function equations:**

- $y = x + 1$
- $y = \sin(x)$
- $y = (x^3 - 1)$

## **Properties**

**What are the even and odd functions in integration?**

- **Integral of an Even Function:** Even
- **Integral of an Odd Function:** Odd

**Which functions are always odd?**

- $y = x$
- $y = \tan(x)$
- $y = \sin(x) - \cos(x)$

## **Transformations**

**What are odd and even functions transformations?**

- **Reflection about the Origin (Odd Function):**  $f(x) \neq f(-x)$
- **Reflection about the y-Axis (Even Function):**  $f(x) = f(-x)$

## Other Concepts

Is 4 even or odd?

- Even

**Rules of odd and even numbers:**

- Odd + Odd = Even
- Odd + Even = Odd
- Even + Even = Even
- Even x Even = Even
- Odd x Odd = Odd
- Even x Odd = Even

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