

# Graph Behavior Lesson Objectives

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## Analyzing Functions Lesson

Find the intervals over which a function is increasing, decreasing, and constant

Describe the analysis of the graph of a function

Identify the  $x$ - and  $y$ -intercepts of a function from its graph

## Even and Odd Functions Lesson

Determine whether a function is even, odd, or neither

## Asymptotes and End Behavior Lesson

Recognize and describe the asymptotes of a function

Recognize and describe the end behavior of a function

## Continuous and Discontinuous Functions Lesson

Identify continuous and discontinuous functions

Identify types of discontinuity

## Linear, Absolute Value, and Reciprocal Functions Lesson

Recognize the graphs of the parent functions of the linear, absolute value, and reciprocal functions

## Power, Root, Exponential, and Logarithmic Functions Lesson

Recognize the graphs of the parent functions of power, root, exponential, and logarithmic functions

## Transformations of Functions Lesson

Identify horizontal and vertical shifts by analyzing the equation of the function

Identify horizontal and vertical stretches and compressions by analyzing the equation of the function

Identify reflections across the  $x$ - and  $y$ -axes by analyzing the equation of the function

# Multiple Transformations of Functions Lesson

Determine the order of transformations of a function

Identify multiple transformations of a function by observing the algebraic structure of the function