

## UNIT 5 • COMPARING AND CONTRASTING FUNCTIONS

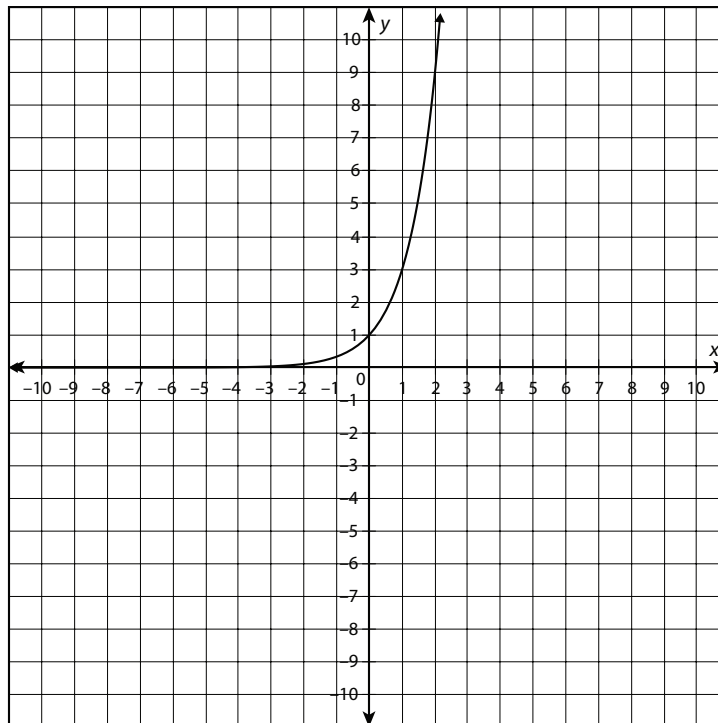
## Lesson 3: Function Transformations

## Assessment

## Pre-Assessment

Circle the letter of the best answer.

- Find  $g(x)$  such that  $g(x)$  is a translation of  $f(x) = 3x - 1$  upward by 3 units.
  - $g(x) = 6x - 1$
  - $g(x) = 3x + 2$
  - $g(x) = 3x - 4$
  - $g(x) = 3x + 8$
- Suppose  $f(x) = 3x^2 + 1$ . Find a function  $g(x)$  such that  $g(x)$  is the reflection of  $f(x)$  across the  $x$ -axis.
  - $g(x) = -3x^2 - 1$
  - $g(x) = 3x^2 - 1$
  - $g(x) = 3x^2 + 1$
  - $g(x) = -3x^2 + 1$
- Is the following graph even, odd, or neither?



- even but not odd
- odd but not even
- both even and odd
- neither even nor odd

*continued*

