

1-5 Study Guide and Intervention *(continued)***Parent Functions and Transformations**

Transformations of Parent Functions Parent functions can be transformed to create other members in a family of graphs.

Translations	$g(x) = f(x) + k$ is the graph of $f(x)$ translated...	... k units up when $k > 0$.
	$g(x) = f(x - h)$ is the graph of $f(x)$ translated...	... k units down when $k < 0$.
Reflections	$g(x) = -f(x)$ is the graph of $f(x)$...	... h units right when $h > 0$.
	$g(x) = f(-x)$ is the graph of $f(x)$...	... h units left when $h < 0$.
Dilations	$g(x) = a \cdot f(x)$ is the graph of $f(x)$...	...reflected in the x -axis.
	$g(x) = f(ax)$ is the graph of $f(x)$...	...reflected in the y -axis.
		...expanded vertically if $a > 1$.
		...compressed vertically if $0 < a < 1$.
		...compressed horizontally if $a > 1$.
		...expanded horizontally if $0 < a < 1$.

Example

Identify the parent function $f(x)$ of $g(x) = \sqrt{-x} - 1$, and describe how the graphs of $g(x)$ and $f(x)$ are related. Then graph $f(x)$ and $g(x)$ on the same axes.

The graph of $g(x)$ is the graph of the square root function $f(x) = \sqrt{x}$ reflected in the y -axis and then translated one unit down.

**Exercises**

Identify the parent function $f(x)$ of $g(x)$, and describe how the graphs of $g(x)$ and $f(x)$ are related. Then graph $f(x)$ and $g(x)$ on the same axes.

1. $g(x) = 0.5|x + 4|$



2. $g(x) = 2x^2 - 4$



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Table of Contents Resource Masters Precalculus Glencoe Chapter 4

1. Understanding the eBook Resource Masters Precalculus Glencoe Chapter 4
 - The Rise of Digital Reading Resource Masters Precalculus Glencoe Chapter 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Resource Masters Precalculus Glencoe Chapter 4
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Resource Masters Precalculus Glencoe Chapter 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Resource Masters Precalculus Glencoe Chapter 4
 - Personalized Recommendations
 - Resource Masters Precalculus Glencoe Chapter 4 User Reviews and Ratings
 - Resource Masters Precalculus Glencoe Chapter 4 and Bestseller Lists
5. Accessing Resource Masters Precalculus Glencoe Chapter 4 Free and Paid eBooks

- Resource Masters Precalculus Glencoe Chapter 4 Public Domain eBooks
 - Resource Masters Precalculus Glencoe Chapter 4 eBook Subscription Services
 - Resource Masters Precalculus Glencoe Chapter 4 Budget-Friendly Options
6. Navigating Resource Masters Precalculus Glencoe Chapter 4 eBook Formats
- ePub, PDF, MOBI, and More
 - Resource Masters Precalculus Glencoe Chapter 4 Compatibility with Devices
 - Resource Masters Precalculus Glencoe Chapter 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Resource Masters Precalculus Glencoe Chapter 4
 - Highlighting and Note-Taking Resource Masters Precalculus Glencoe Chapter 4
 - Interactive Elements Resource Masters Precalculus Glencoe Chapter 4
8. Staying Engaged with Resource Masters Precalculus Glencoe Chapter 4
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Resource Masters Precalculus Glencoe Chapter 4
9. Balancing eBooks and Physical Books Resource Masters Precalculus Glencoe Chapter 4
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Resource Masters Precalculus Glencoe Chapter 4
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Resource Masters Precalculus Glencoe Chapter 4
- Setting Reading Goals Resource Masters Precalculus Glencoe Chapter 4
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Resource Masters Precalculus Glencoe Chapter 4
- Fact-Checking eBook Content of Resource Masters Precalculus Glencoe Chapter 4
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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