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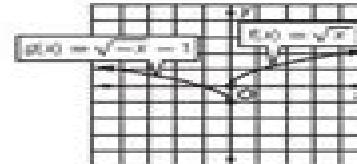
**Parent Functions and Transformations**

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

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

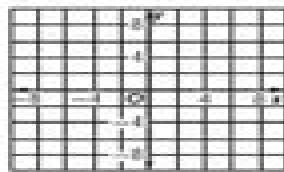
**Example** Identify the parent function  $f(x)$  of  $g(x) = \sqrt{-x} - 1$ , and describe how the graphs of  $g(x)$  and  $f(x)$  are related. Then graph  $f(x)$  and  $g(x)$  on the same axes.

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.

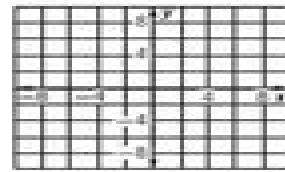
**Exercises**

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



# Study Guide Intervention Algebra 2 Answers

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