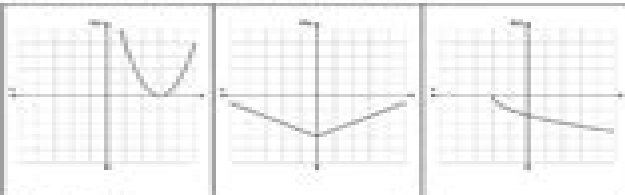


# FUNCTION TRANSFORMATIONS NOTES

## IDENTIFYING FUNCTION TRANSFORMATIONS

Directions: State the parent function and describe the transformations.



Parent Function:

Transformations:

Directions: Draw

Equation:

$$f(x) = 2x + 3$$

$$g(x) = \frac{1}{2}x^2 - 3$$

$$g(x) = 3x + 10$$

$$f(x) = 2x + 10$$

## GRAPHING FUNCTION TRANSFORMATIONS

Type of Transformation	Coordinate Transformation
Vertical Translation	$(x, y) \rightarrow (x, y + k)$
Horizontal Translation	$(x, y) \rightarrow (x + h, y)$
Vertical Dilation	$(x, y) \rightarrow (x, y \cdot a)$
Horizontal Dilation	$(x, y) \rightarrow (x \cdot b, y)$
Reflection over the x-axis	$(x, y) \rightarrow (x, -y)$
Reflection over the y-axis	$(x, y) \rightarrow (-x, y)$

Directions: Complete the transformation table and use it to graph the absolute value equation.

Equation	Parent Function Table	Transformation Table	Graph																								
$f(x) =  x  - 3$	<table><tr><td>-3</td><td>-3</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr></table>	-3	-3	-2	-2	-1	-1	0	0	1	1	2	2	<table><tr><td>-3</td><td>-3</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr></table>	-3	-3	-2	-2	-1	-1	0	0	1	1	2	2	
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$g(x) = 2 x  + 3$	<table><tr><td>-3</td><td>-3</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr></table>	-3	-3	-2	-2	-1	-1	0	0	1	1	2	2	<table><tr><td>-3</td><td>-3</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr></table>	-3	-3	-2	-2	-1	-1	0	0	1	1	2	2	
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## TRANSFORMATIONS OF FUNCTIONS

$$y = a f(bx - c) + d$$

Directions of Absolute Value Functions



## WRITING FUNCTION TRANSFORMATION EQUATIONS

Directions: Identify the parent function, function transformations, and write the equation.

<p>Parent Function: Quadratic Transformations: Vertical shift down 1 unit Equation: <math>f(x) = x^2 - 1</math></p>	<p>Parent Function: Cube Root Transformations: Vertical shift up 1 unit Equation: <math>f(x) = \sqrt[3]{x} + 1</math></p>
<p>Parent Function: Absolute Value Transformations: Vertical shift up 1 unit Equation: <math>f(x) =  x  + 1</math></p>	<p>Parent Function: Cube Transformations: Vertical shift up 1 unit Equation: <math>f(x) = \sqrt[3]{x} + 1</math></p>

Directions: Write the equation based on the given parent function and transformations.

Parent Function: Linear	Equation: $f(x) = x + 3$
Transformations: Vertical shift up 3 units	Equation: $f(x) = x + 3$
Parent Function: Quadratic	Equation: $f(x) = x^2$
Transformations: Reflection over the x-axis	Equation: $f(x) = -x^2$
Parent Function: Absolute Value	Equation: $f(x) =  x $
Transformations: Horizontal stretch by 2	Equation: $f(x) = \frac{1}{2} x $

Directions: Given each function and transformation sequence, write the rule & equation.

<p>Write a function <math>g(x)</math> whose graph is a reflection over the y-axis followed by a vertical shift down 3 units of the graph <math>f(x) =  x </math>.</p> <p>Rule: <math>g(x) = - x  - 3</math></p> <p>Equation: <math>g(x) = - x  - 3</math></p>	<p>Let <math>f(x) = 2x + 3</math>. Write a function <math>g(x)</math> whose graph is a reflection over the y-axis followed by a horizontal shift right by 2 units of the graph of <math>f</math>.</p> <p>Rule: <math>g(x) = 2(-x) + 3</math>  <math>g(x) = -2x + 3</math>  <math>g(x) = -2(x - 2) + 3</math>  <math>g(x) = -2x + 7</math></p> <p>Equation: <math>g(x) = -2x + 7</math></p>
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Detailed answer keys are included!



# Exploring Transformations Algebra 2 With Answer Key

**M Mosston**



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