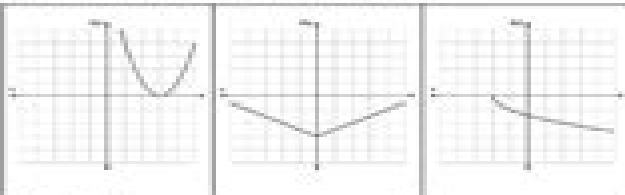


# FUNCTION TRANSFORMATIONS NOTES

## IDENTIFYING FUNCTION TRANSFORMATIONS

Directions: State the parent function and describe the transformations.



Parent Function:

Transformations:

Directions: Draw

Equation:

$$f(x) = (x + 3)^2 - 4$$

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

$$g(x) = (x + 1)^3$$

$$f(x) = (x + 2)^2 + 1$$

## TRANSFORMATIONS OF FUNCTIONS

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

Directions of Absolute Value Functions



## 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>-2</td></tr><tr><td>-2</td><td>-1</td></tr><tr><td>-1</td><td>0</td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>3</td></tr></table>   | -3                   | -2    | -2 | -1 | -1 | 0  | 0  | 1 | 1 | 2 | 2 | 3 | <table><tr><td>-3</td><td>-2</td></tr><tr><td>-2</td><td>-1</td></tr><tr><td>-1</td><td>0</td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>2</td></tr><tr><td>2</td><td>3</td></tr></table>   | -3 | -2 | -2 | -1 | -1 | 0  | 0  | 1 | 1 | 2 | 2 | 3 |  |
| -3                   | -2                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -2                   | -1                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -1                   | 0                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 0                    | 1                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 1                    | 2                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 2                    | 3                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -3                   | -2                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -2                   | -1                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -1                   | 0                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 0                    | 1                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 1                    | 2                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 2                    | 3                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| $g(x) =  x + 2  + 1$ | <table><tr><td>-4</td><td>-3</td></tr><tr><td>-3</td><td>-2</td></tr><tr><td>-2</td><td>-1</td></tr><tr><td>-1</td><td>0</td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>2</td></tr></table> | -4                   | -3    | -3 | -2 | -2 | -1 | -1 | 0 | 0 | 1 | 1 | 2 | <table><tr><td>-4</td><td>-3</td></tr><tr><td>-3</td><td>-2</td></tr><tr><td>-2</td><td>-1</td></tr><tr><td>-1</td><td>0</td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>2</td></tr></table> | -4 | -3 | -3 | -2 | -2 | -1 | -1 | 0 | 0 | 1 | 1 | 2 |  |
| -4                   | -3                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -3                   | -2                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -2                   | -1                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -1                   | 0                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 0                    | 1                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 1                    | 2                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -4                   | -3                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -3                   | -2                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -2                   | -1                                                                                                                                                                                                   |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| -1                   | 0                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 0                    | 1                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |
| 1                    | 2                                                                                                                                                                                                    |                      |       |    |    |    |    |    |   |   |   |   |   |                                                                                                                                                                                                      |    |    |    |    |    |    |    |   |   |   |   |   |  |

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## WRITING FUNCTION TRANSFORMATION EQUATIONS

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

|                                                                                                                                   |                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <p>Parent Function: Quadratic<br/>Transformations: Vertical shift up 1 unit<br/>Equation: <math>f(x) = x^2 + 1</math></p>         | <p>Parent Function: Cube Root<br/>Transformations: Vertical shift up 1 unit<br/>Equation: <math>f(x) = \sqrt[3]{x} + 1</math></p> |
| <p>Parent Function: Absolute Value<br/>Transformations: Vertical shift down 2 units<br/>Equation: <math>f(x) =  x  - 2</math></p> | <p>Parent Function: Cube Root<br/>Transformations: Vertical shift up 1 unit<br/>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: $f(x) = x + 6$              |
| Parent Function: Quadratic                  | Equation: $f(x) = x^2$                |
| Transformations: Reflection over the x-axis | Equation: $f(x) = -x^2$               |
| Parent Function: Absolute Value             | Equation: $f(x) =  x  + 1$            |
| Transformations: Horizontal stretch by 2    | Equation: $f(x) = \frac{1}{2} x  + 1$ |

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 of <math>f(x)</math>.</p> <p>Rule: <math>g(x) = f(-x) - 3</math></p> <p>Equation: <math>g(x) = -x^2 - 3</math></p> | <p>Let <math>f(x) = (x + 1)^2</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(x)</math>.</p> <p>Rule: <math>g(x) = f(-x + 2)</math></p> <p>Equation: <math>g(x) = (-x + 2 + 1)^2 = (-x + 3)^2 = (x - 3)^2</math></p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Detailed answer keys are included!



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