

NAME:

DATE:

A2.Q1.BERMELLEEMBO:

GRAPHING FUNCTIONS

(DAY G2)

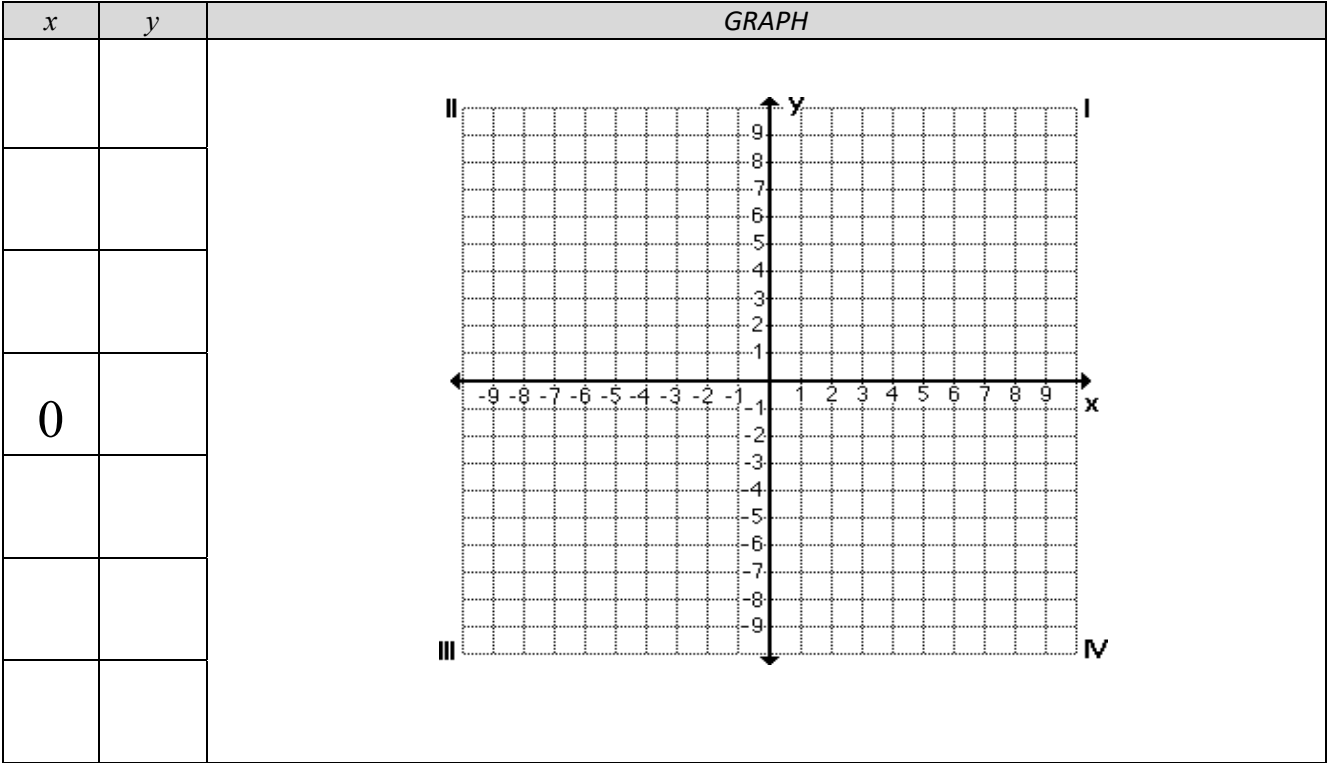
MASTERY PRACTICE

TRANSFORMATIONS OF THE PARENT ABSOLUTE VALUE
FUNCTION

NO CALCULATORS

PARENT: $f(x)=|x|$

TABLE OF VALUES AND GRAPH:



VERTEX:

SLOPE RATIO:

1. NEW FUNCTION: $g(x) = -|x - 2| + 4$

Horizontal Translation:

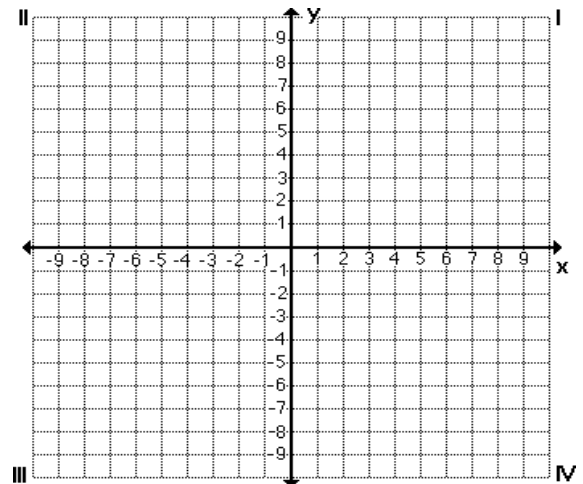
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



2. NEW FUNCTION: $g(x) = -|x + 3| - 4$

Horizontal Translation:

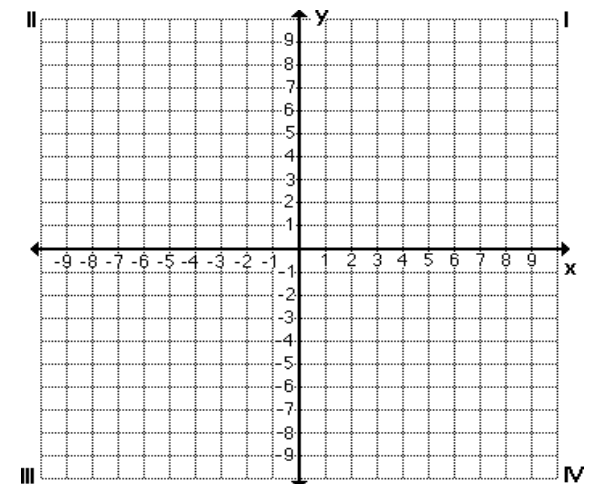
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



3. NEW FUNCTION: $g(x) = 2|x + 4| - 3$

Horizontal Translation:

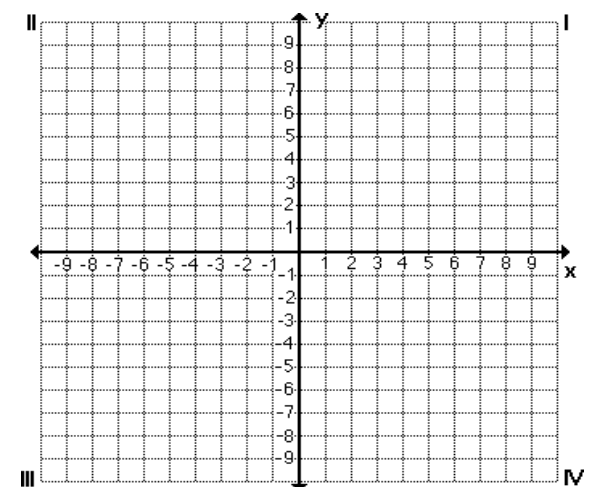
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



4. NEW FUNCTION: $g(x) = 3|x| - 5$

Horizontal Translation:

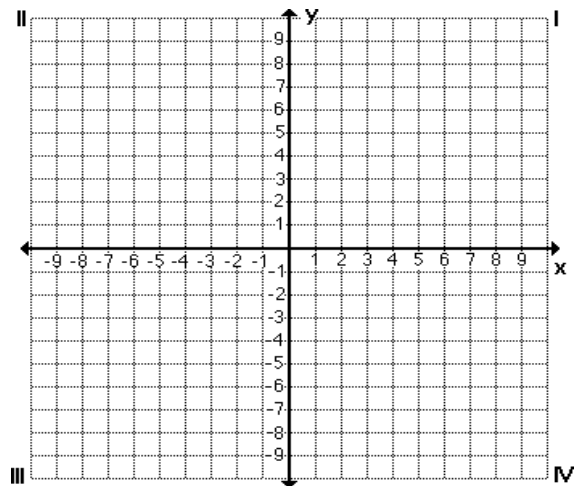
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



5. NEW FUNCTION: $g(x) = -2|x + 6|$

Horizontal Translation:

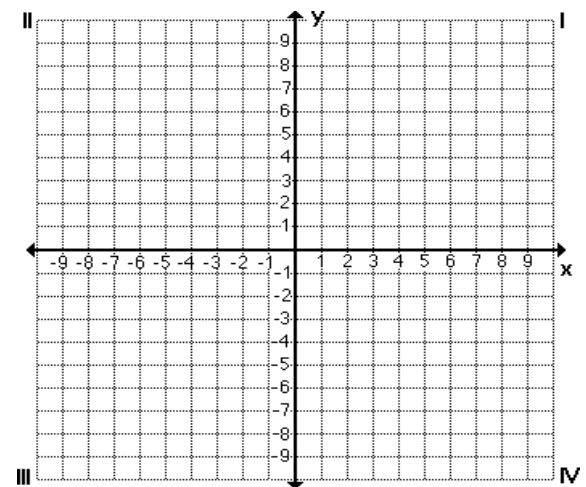
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



6. NEW FUNCTION: $g(x) = |x + 7| + 1$

Horizontal Translation:

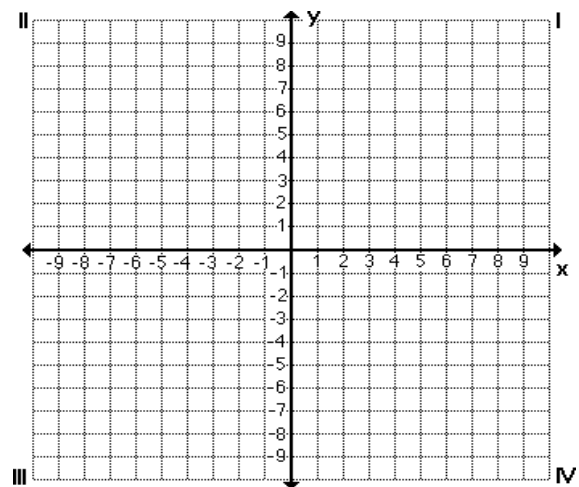
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



7. NEW FUNCTION: $g(x) = -|x + 2| - 4$

Horizontal Translation:

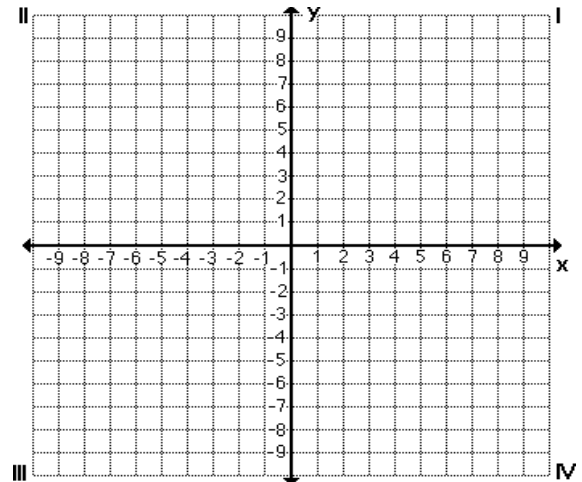
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



8. NEW FUNCTION: $g(x) = 4|x - 1| - 8$

Horizontal Translation:

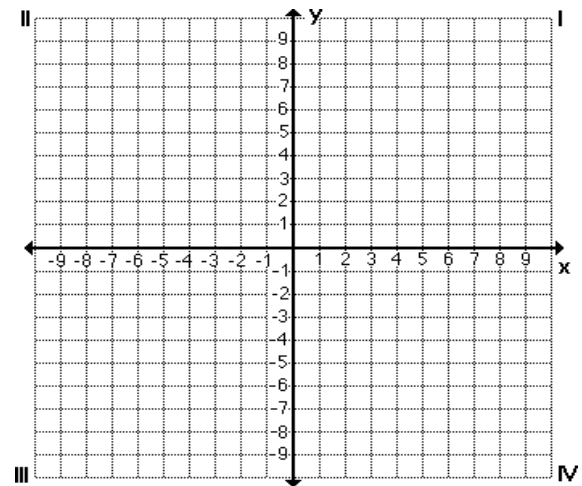
Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:



9. NEW FUNCTION: $g(x) = -\frac{1}{2}|x - 5| + 3$

Horizontal Translation:

Dilation:

Slope Ratio:

Reflection:

Vertical Translation:

Vertex:

