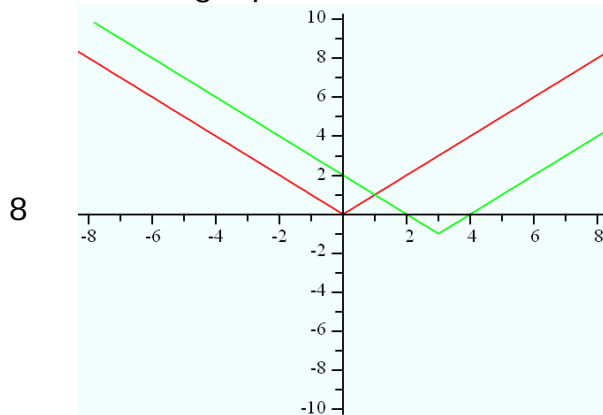


Quiz: Transformations with Functions

- 1 Write the equation for the graph of function $g(x)$, obtained by shifting the graph of $f(x) = x^2$ two units left, stretching the graph vertically by a factor of five, reflecting that result over the x -axis, and then translating the graph up three units.
- 2 Describe the transformations that would produce the graph of the second function from the graph of the first function.
 $f(x)=x$ becomes $g(x)= 3x+2$
- 3 Given function $f(x)=x^2 +1$, sketch the graphs of and describe the transformation : $-f(x)$
- 4 Determine if the functions $f(x)$ and $g(x)$ shown below are odd, even or neither: $f(x)= |x|-3$ and $g(x) = -|x-3|$
- 5 A function is defined as $f(x) = x^2-1$. Sketch the graph of $f(x)$ and $f^{-1}(x)$ on the same axis and describe in transformational terms the relationship between these two graphs.
- 6 Let two functions $f(x)= x^3$ and $f(x)= 4x^3$. Graph both function On the same axes. Describe the relationship between these two graphs using transformational terms.
- 7 Consider relationship between Fahrenheit and Celsius temperatures. Graph these two functions on the same set of axes: $y=x$ and $y=(2/8)(x-2)$ Describe in transformational terms, how the first graph becomes the second graph.



Write the equation for the graph shown at the right. Assume that the parent function was $y=|x|$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%