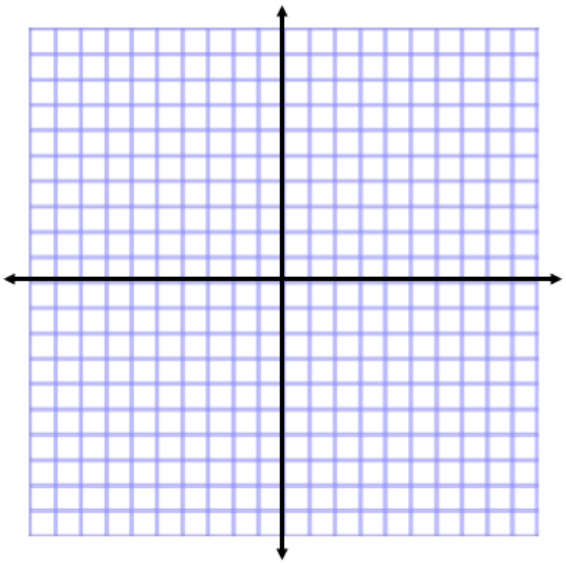
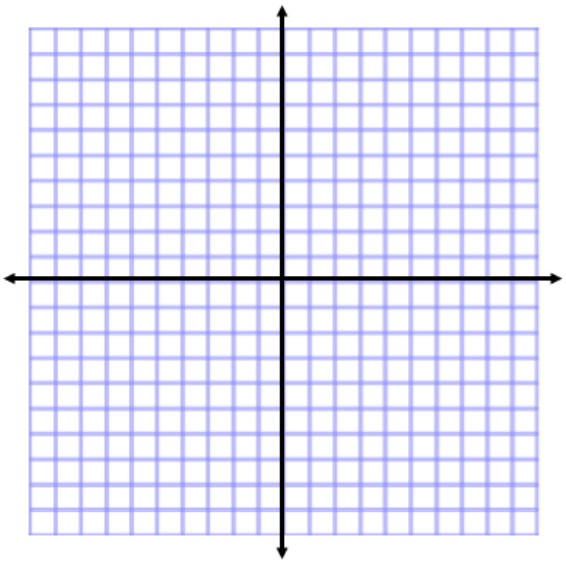
DATE: _____

1.6 Graphical Transformations

Non-Calculator

$g(x) = 2\|x - 5\| + 3$	
Describe the transformations for the function given above.	In the space above, write a quadratic function satisfying the transformations given below. Transformations: • Horizontal shift 3 units to the left • Vertical shift 2 units down • Vertical shrink by a factor of $\frac{1}{3}$
Sketch the given function based upon the transformation. 	Sketch the given function based upon the transformation. 

Calculator

Which of the equations below would represent $f(x) = 2(x + 1)^2 + 3$ after it was reflected over the *x*-axis?

a) $f(x) = -2(x + 1)^2 + 3$
b) $f(x) = -2(x + 1)^2 - 3$
c) $f(x) = 2(-x + 1)^2 + 3$
d) $f(x) = 2(-x + 1)^2 - 3$