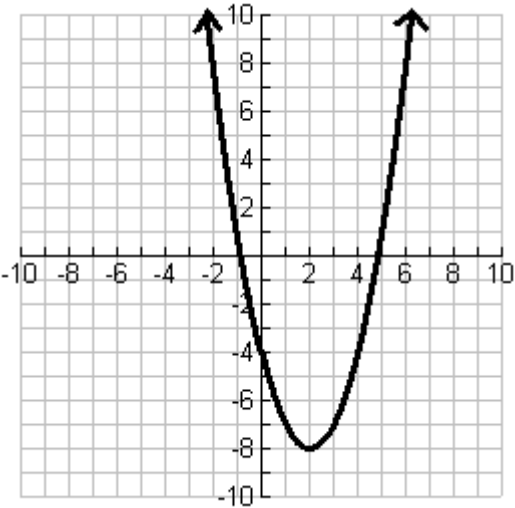
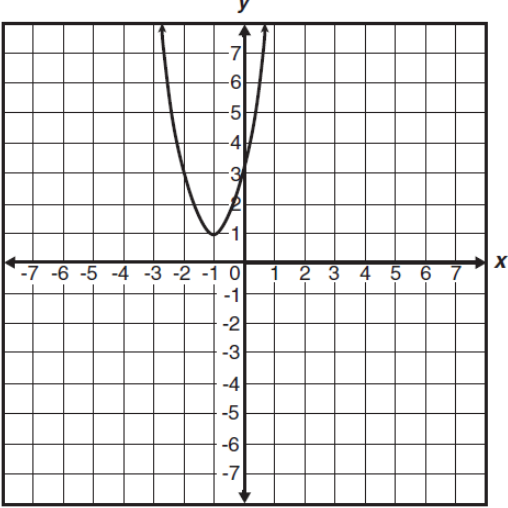
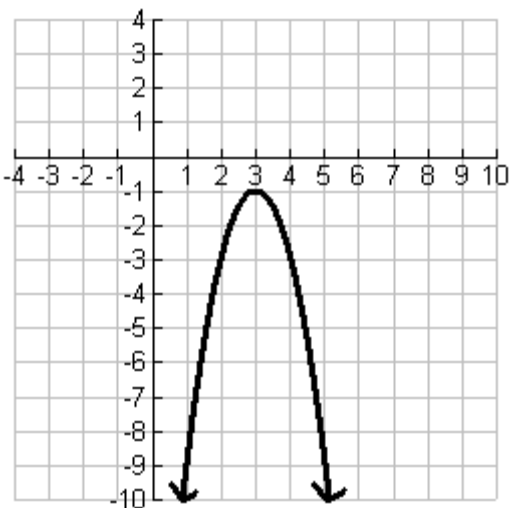


Name: _____

Odd One Out — Quadratic Functions

Quadratic Function 1	Which one is the Odd One Out?	Why is it the Odd One Out?
	<ul style="list-style-type: none"> The roots of this equation are $(0, 0)$ and $(4, 0)$. The vertex of this quadratic function is $(2, -8)$. This graph has a y-intercept at $(0, -4)$. The range of this graph is $y \geq -8$. 	
Quadratic Function 2	Which one is the Odd One Out?	Why is it the Odd One Out?
	<ul style="list-style-type: none"> The graph has a y-intercept at $(0, 3)$. The graph has a vertex at $(-1, 1)$. The graph has a maximum value at $(-1, 1)$. The graph has a line of symmetry of $x = -1$. 	
Quadratic Function 3	Which one is the Odd One Out?	Why is it the Odd One Out?
<p>The factored form of a quadratic function is :</p> $y = (x - 4)(2x - 3)$	<ul style="list-style-type: none"> The graph has a y-intercept at $(0, 12)$. The domain of the function is all real numbers. The vertex of the graph is $(3, -4)$. 	

Quadratic Function(s) 4	Which one is the Odd One Out?	Why is it the Odd One Out?
<p>Look at the equations below for two quadratic functions.</p> <p>Equation 1: $y = 3(x - 5)^2 + 1$</p> <p>Equation 2: $y = 3(x + 5)^2 + 1$</p>	<ul style="list-style-type: none"> Equation 1 is a reflection of Equation 2 over the y- axis. Both equations have minimum points that fall on the line $y = 1$. Both graphs are shifted to the right 5 units from the parent function. 	

Quadratic Function 5	Which one is the Odd One Out?	Why is it the Odd One Out?
	<ul style="list-style-type: none"> The graph has a y-axis line of symmetry. There are no real solutions to this function. The range of the function is $y \leq -1$. 	

Quadratic Function 6	Which one is the Odd One Out?	Why is it the Odd One Out?
<p>The equation for a quadratic function is shown below:</p> $6x^2 + 9x - 6 = 0$	<ul style="list-style-type: none"> This function has x-intercepts at $(-2, 0)$ and $(\frac{1}{2}, 0)$. This function has a y-intercept of $(0, -8)$. This function has no maximum value. 	

