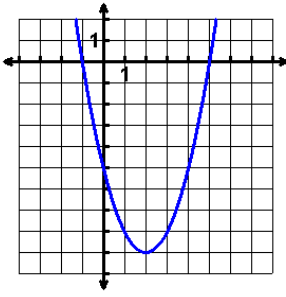
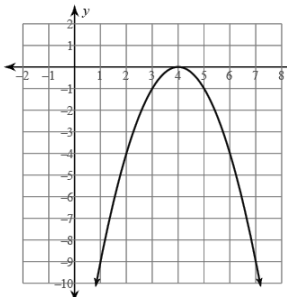
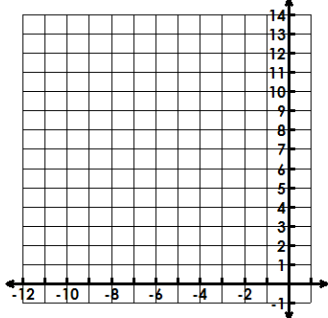
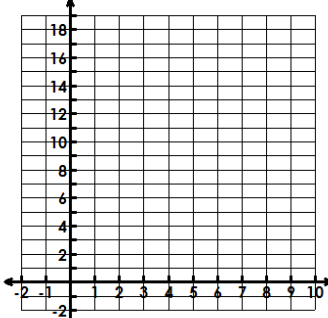
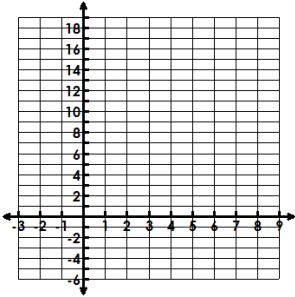
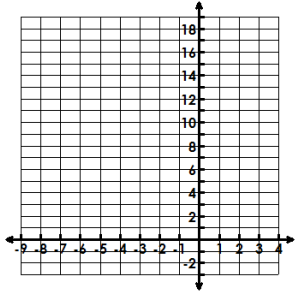


Name: _____

Date: _____

Use the following to review for you test. **Work the Practice Problems on a separate sheet of paper.**

Topic	Things to remember	Examples	
<p>Characteristics of Quadratics</p>	<p>Vertex: (h, k)</p> <p>Axis of Symmetry: x = h</p>	<p>1. Use the graph to answer the following.</p>  <p>Equation:</p> <p>Vertex:</p> <p>A.O.S.:</p>	<p>2. Use the graph to answer the following.</p>  <p>Equation:</p> <p>Vertex:</p> <p>A.O.S.:</p>
<p>Transformations</p>	<p>Negative in front reflects across x-axis</p> <p>Number in front stretches or shrinks</p> <p>Number inside parenthesis moves left or right</p> <p>Number alone moves up or down</p>	<p>Describe the transformations:</p> $-\frac{1}{3}f(x+2)+1$	<p>Describe the transformations:</p> $f(x-4)+3$
<p>Graph Quadratics in Vertex Form</p>	<p>Vertex (h, k)</p> <p>AOS = h</p> <p>Table, Edit Function, Start = AOS</p> <p>Scroll up and down to get other ordered pairs</p>	<p>5. Graph the following function.</p> $f(x) = (x+7)^2 + 4$ 	<p>6. Graph the following function.</p> $f(x) = -2(x-4)^2 + 8$ 

<p>Graph Quadratics in Standard Form</p>	<p>AOS: $x = \frac{-b}{2a}$ Vertex $\left(\frac{-b}{2a}, f\left(\frac{-b}{2a}\right)\right)$ Table, Edit Function, Start = AOS Scroll up and down to get other ordered pairs</p>	<p>7. Graph the following function. $f(x) = x^2 - 6x + 5$</p> 	<p>8. Graph the following function. $f(x) = -x^2 - 6x + 8$</p> 
<p>Change form Vertex to Standard Form</p>	<p>Expand the binomial. Distribute any number in front of the parenthesis. Combine like terms.</p>	<p>9. $f(x) = (x + 2)^2 - 8$</p>	<p>10. $f(x) = -3(x - 5)^2 + 1$</p>
<p>Change from Standard Form to Vertex Form</p>	<p>Find a Find the h-value by using $x = -b/2a$ Plug in the x to find the h-value Write in vertex form. Do 11-12 by hand, and 13-14 in the calculator.</p>	<p>11. $f(x) = x^2 - 2x - 8$</p>	<p>12. $f(x) = -2x^2 - 16x - 32$</p>
		<p>13. $f(x) = x^2 + 10x + 20$</p>	<p>14. $f(x) = x^2 + 6x + 9$</p>
<p>Compare Quadratic Functions in Different Forms</p>	<p>Find the axis of symmetry, vertex, slope, and y-intercepts based on the equation or table given.</p>	<p>15. $f(x) = 2x^2 - 12x + 25$ Opens Up or Down? Axis of Symmetry: ____ Vertex: ____ Zeros: ____ y-intercept: ____</p>	<p>16. $f(x) = -(x - 2)^2 + 4$ Opens Up or Down? Axis of Symmetry: ____ Vertex: ____ Solutions: ____ y- intercept: ____</p>