

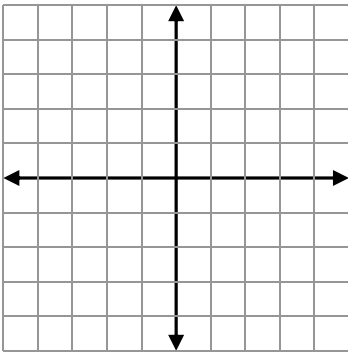
Algebra 1

Graphing Quadratic Functions 3

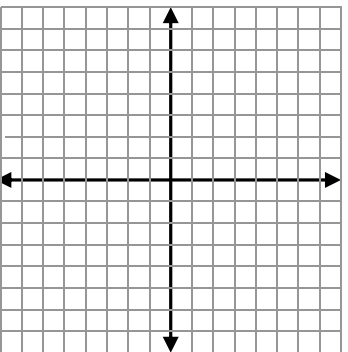
Name: _____ Per: _____ Date: _____

Show **ALL** work in the space provided

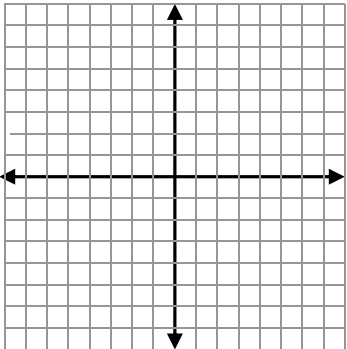
1. Use $y = -x^2 + 4$ for the following:

a) Write the value for a , b , and c .	b) Use $x = \frac{-b}{2a}$ to find the axis of symmetry.	c) Use your answer from part (b) to find the y -coordinate of the vertex. Write the vertex.
d) Pick another number for x to find another point.	e) Use Symmetry to find a 3 rd point.	f) Graph the parabola. Estimate the solutions. 

2. Use $y = -x^2 + 2x + 5$ for the following:

a) Write the value for a , b , and c .	b) Use $x = \frac{-b}{2a}$ to find the axis of symmetry.	c) Use your answer from part (b) to find the y -coordinate of the vertex. Write the vertex.
d) Pick another number for x to find another point.	e) Use Symmetry to find a 3 rd point.	f) Graph the parabola. Estimate the solutions. 

3. Use $y = x^2 - 6x + 4$ for the following:

<p>a) Write the value for a, b, and c.</p>	<p>b) Use $x = \frac{-b}{2a}$ to find the line (axis) of symmetry.</p>	<p>c) Use your answer from part (b) to find the y-coordinate of the vertex. Write the vertex.</p>
<p>d) Pick another number for x to find another point.</p>	<p>e) Use Symmetry to find a 3rd point.</p>	<p>f) Graph the parabola. Estimate the solutions.</p> 

4. Use $y = -2x^2 - 6x + 4$ for the following:

<p>a) Write the value for a, b, and c.</p>	<p>b) Use $x = \frac{-b}{2a}$ to find the axis of symmetry.</p>	<p>c) Use your answer from part (b) to find the y-coordinate of the vertex. Write the vertex.</p>
<p>d) Pick another number for x to find another point.</p>	<p>e) Use Symmetry to find a 3rd point.</p>	<p>f) Graph the parabola. Estimate the solutions.</p> 