

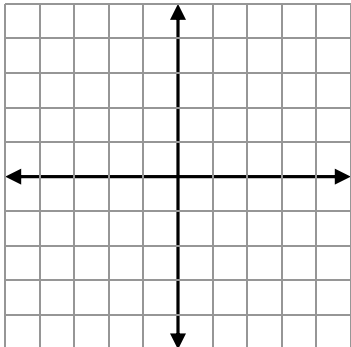
Algebra 1

Graphing Quadratic Functions 2

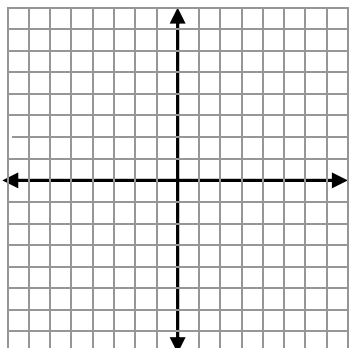
Name: _____ Per: _____ Date: _____

Show **ALL** work in the space provided..

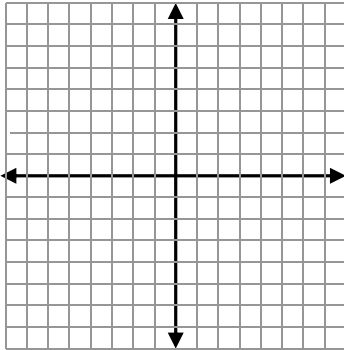
1. Use $y = x^2 + 6x + 8$ for the following:

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) Factor $y = x^2 + 6x + 8$.	e) Solve for the zeroes (x -intercepts).	f) Graph the parabola. 

2. Use $y = x^2 - 2x - 8$ 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) Factor $y = x^2 - 2x - 8$.	e) Solve for the zeroes (x -intercepts).	f) Graph the parabola. 

3. Use $y = x^2 + 4x - 12$ 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) Factor $y = x^2 + 4x - 12$.</p>	<p>e) Solve for the zeroes (x-intercepts).</p>	<p>f) Graph the parabola.</p> 

4. Use $y = x^2 - 6x - 16$ 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) Factor $y = x^2 - 6x - 16$.</p>	<p>e) Solve for the zeroes (x-intercepts).</p>	<p>f) Graph the parabola. Count by 2's on the y-axis.</p> 