

Algebra: Graphing Quadratics Quick Practice

Graphing Quadratics
(Standard, Vertex, Factored)

Directions: Use each form of the quadratic equation to find all the parts, then sketch the graph.

Equations	Parts	Graph
$y = x^2 - 2x - 8$	Vertex: (1, -9)	
$y = (x - 4)(x + 2)$	Axis of sym: $x = 1$	
$y = (x - 1)^2 - 9$	Zeros: (4, 0) (-2, 0)	
	y - int: (0, -8)	
	Reflected	
	y - int: (2, -8)	

Graph

+ 3	Vertex: (1, 4)	
+ 2)	Axis of sym: $x = 1$	
+ 4	Zeros: (3, 0) (-1, 0)	
	y - int: (0, 3)	
	Reflected	
	y - int: (2, 3)	
	Vertex: (3, -4)	
	Axis of sym: $x = 3$	
	Zeros: (5, 0) (1, 0)	
	y - int: (0, 5)	
	Reflected	

Hour: _____ Date: _____

Graphing Quadratics in All Three Forms
(Standard, Vertex, Factored)

Directions: Use each form of the quadratic equation to find all the parts, then sketch the graph.

Equations	Parts	Graph

5

Parts
Vertex: _____
Axis of sym: _____
Zeros: _____
y - int: _____

Secondary Math Shop

Name: _____ Answer Key _____ Hour: _____

Graphing Quadratics in All Three Forms (Standard, Vertex, Factored)

Directions: Use each form of the quadratic equation to find all of the parts, then sketch the graph.

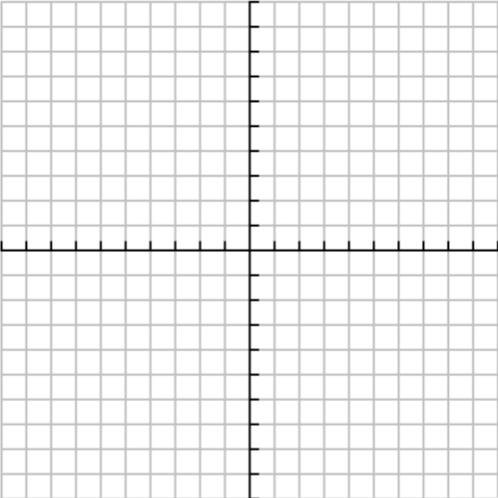
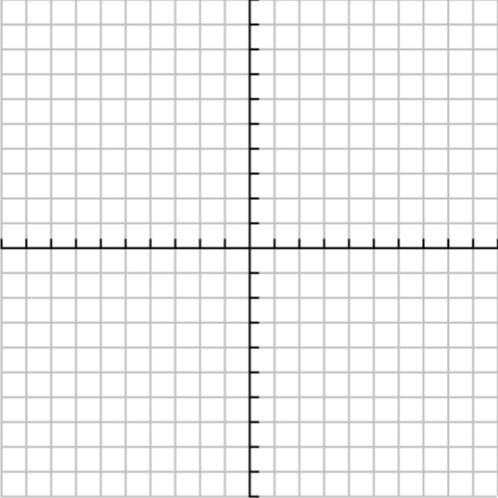
Equations	Parts	Graph
$y = x^2 - 2x - 8$ $y = (x - 4)(x + 2)$ $y = (x - 1)^2 - 9$	<p>Vertex: $(1, -9)$</p> <p>Axis of sym: $x = 1$</p> <p>Zeros:</p> <p>$(4, 0)$ $(-2, 0)$</p> <p>y - int: $(0, -8)$</p> <p>Reflected</p> <p>y - int: $(2, -8)$</p>	
$y = x^2 + 6x + 5$ $y = (x + 5)(x + 1)$ $y = (x + 3)^2 - 4$	<p>Vertex: $(-3, -4)$</p> <p>Axis of sym: $x = -3$</p> <p>Zeros:</p> <p>$(-5, 0)$ $(-1, 0)$</p> <p>y - int: $(0, 5)$</p> <p>Reflected</p> <p>y - int: $(-6, 5)$</p>	

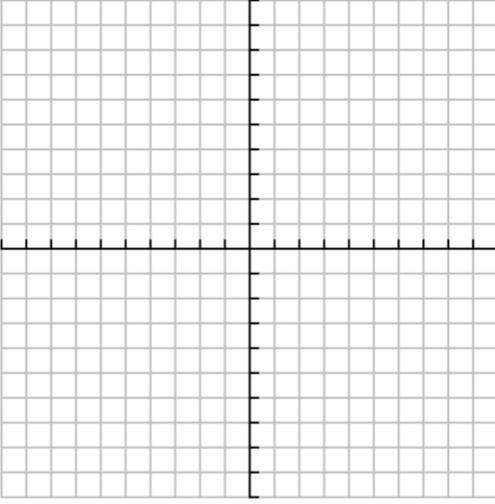
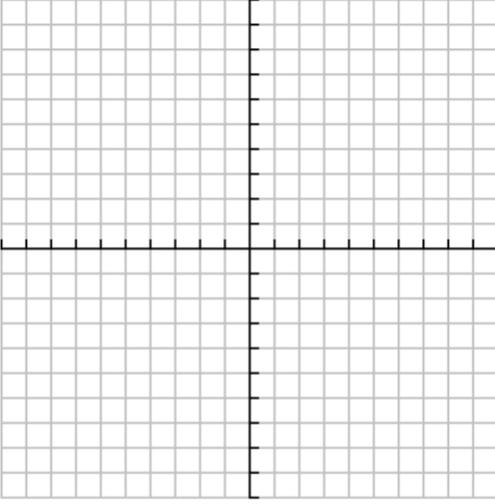
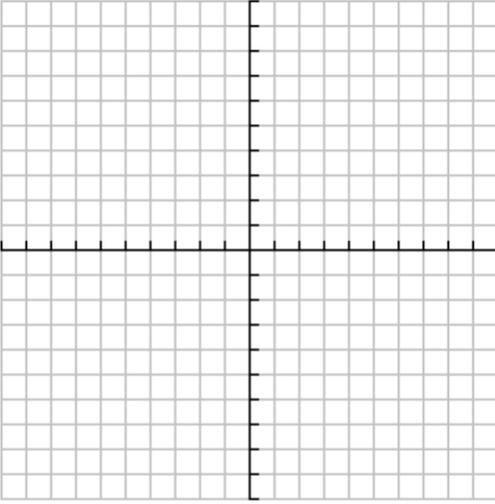
Equations	Parts	Graph
$y = -x^2 + 2x + 3$ $y = -(x - 3)(x + 1)$ $y = -(x - 1)^2 + 4$	<p>Vertex: (1, 4)</p> <p>Axis of sym: $x = 1$</p> <p>Zeros: (3, 0) (-1, 0)</p> <p>y - int: (0, 3)</p> <p>Reflected</p> <p>y - int: (2, 3)</p>	
$y = x^2 - 6x + 5$ $y = (x - 5)(x - 1)$ $y = (x - 3)^2 - 4$	<p>Vertex: (3, -4)</p> <p>Axis of sym: $x = 3$</p> <p>Zeros: (5, 0) (1, 0)</p> <p>y - int: (0, 5)</p> <p>Reflected</p> <p>y - int: (6, 5)</p>	
$y = -x^2 - 4x$ $y = x(x + 4)$ $y = -(x + 2)^2 + 4$	<p>Vertex: (-2, 4)</p> <p>Axis of sym: $x = -2$</p> <p>Zeros: (0, 0) (-4, 0)</p> <p>y - int: (0, 0)</p> <p>Reflected</p> <p>y - int: (-4, 0)</p>	

Name: _____ Hour: _____ Date: _____

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Equations	Parts	Graph
$y = -x^2 + 2x + 3$ $y = -(x - 3)(x + 1)$ $y = -(x - 1)^2 + 4$	Vertex: _____ Axis of sym: _____ Zeros: _____ y - int: _____ Reflected y - int: _____	
$y = x^2 - 6x + 5$ $y = (x - 5)(x - 1)$ $y = (x - 3)^2 - 4$	Vertex: _____ Axis of sym: _____ Zeros: _____ y - int: _____ Reflected y - int: _____	
$y = -x^2 - 4x$ $y = x(x + 4)$ $y = -(x + 2)^2 + 4$	Vertex: _____ Axis of sym: _____ Zeros: _____ y - int: _____ Reflected y - int: _____	

Thank You For Your Purchase!

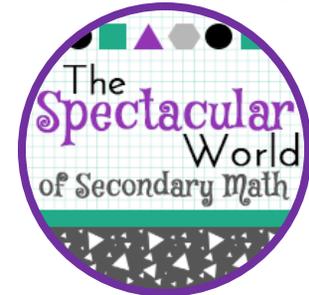
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