

ALGEBRA 1  
ALGEBRA 2

**GRAPHING  
PARABOLAS IN  
VERTEX FORM  
FREEBIE!**



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## **GRAPHING PARABOLAS FREEBIE!**

This is an activity which will help your Algebra 1 or Algebra 2 students with practice when graphing parabolas in vertex form. The worksheet can be used as a homework assignment or assessment activity. Students are asked to identify the axis of symmetry, the vertex, they use a given substitution point and state the reflected point needed to create three points to sketch the parabola. This activity is a part of my UNIT 4 BUNDLE. An answer key is provided.

Teaching Suggestions:

- Use the activity in groups
- Use the activity as a review exercise prior to assessing students.

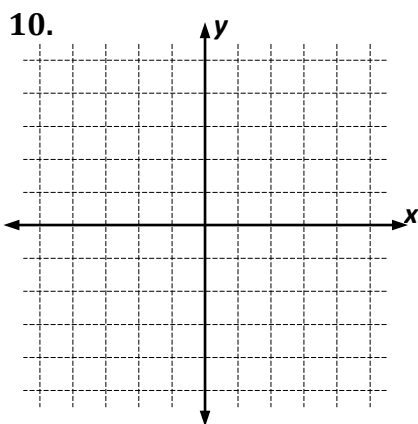
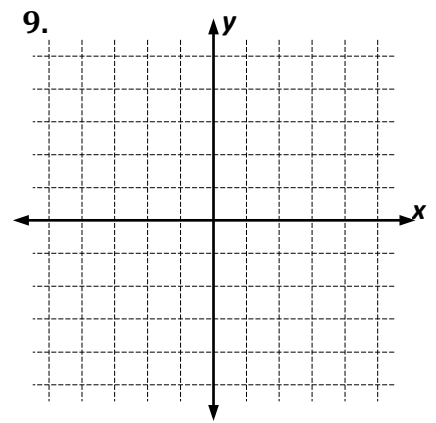
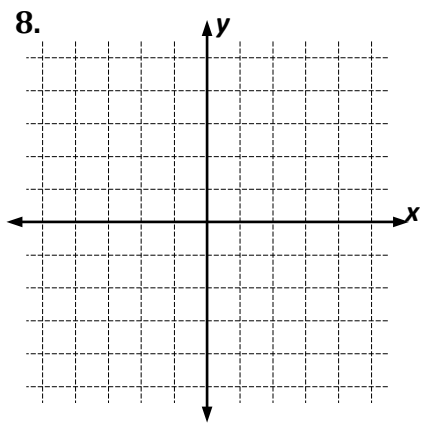
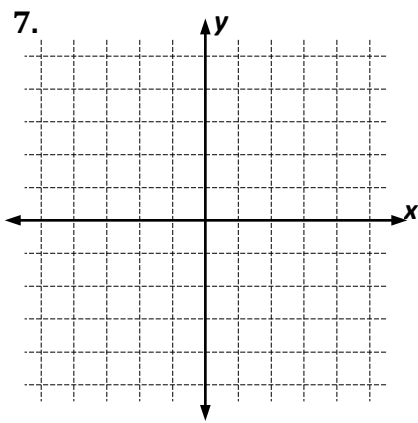
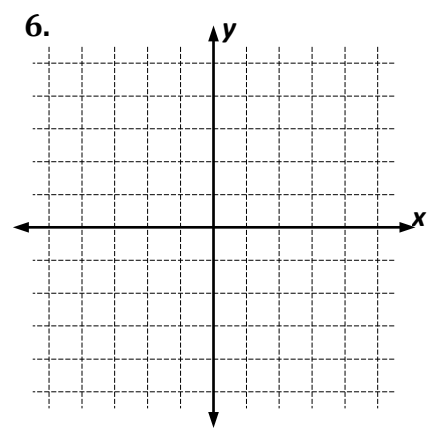
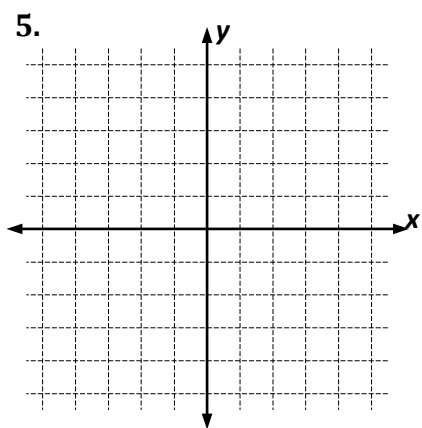
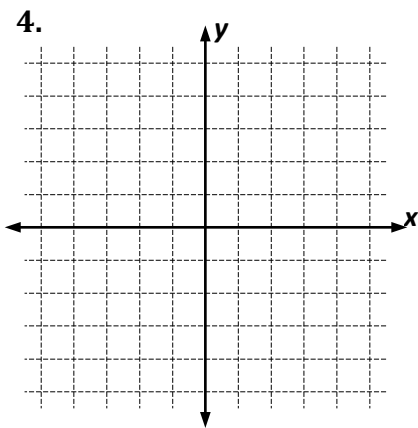
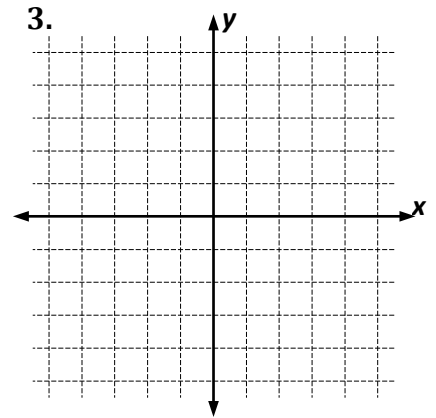
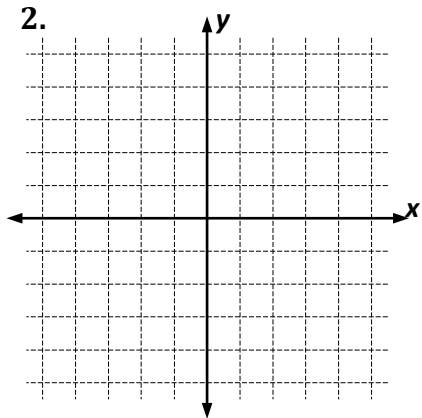
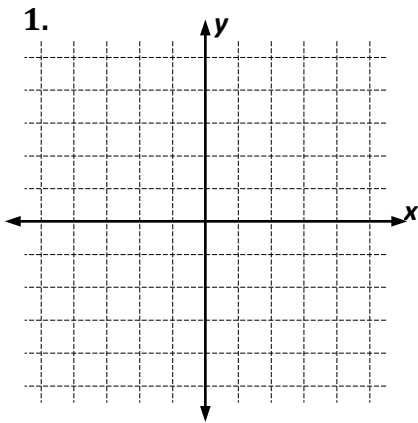
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Complete the table below. Then graph each parabola on the axes provided.

	Problem	Axis of Symmetry	Vertex	Substitution Point	Reflected Point
1.	$y = (x - 2)^2$			$x = 4, y =$	
2.	$y = (x + 1)^2 - 2$			$x = 1, y =$	
3.	$y = x^2 + 3$			$x = 1, y =$	
4.	$y = 2x^2$			$x = -1, y =$	
5.	$y = (x - 1)^2$			$x = -1, y =$	
6.	$y = 1 - x^2$			$x = -2, y =$	
7.	$y = -2x^2$			$x = 1, y =$	
8.	$y = (x + 3)^2 - 5$			$x = 0, y =$	
9.	$y = -(x - 3)^2 + 1$			$x = 1, y =$	
10.	$y = (2 - x)^2$			$x = 0, y =$	

# GRAPHING PARABOLAS

Name \_\_\_\_\_



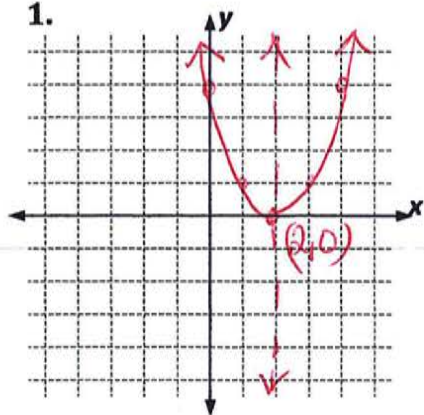
Complete the table below. Then graph each parabola on the axes provided.

	Problem	Axis of Symmetry	Vertex	Substitution Point	Reflected Point
1.	$y = (x - 2)^2$	$X = 2$	$(2, 0)$	$x = 4, y = 4$	$(0, 4)$
2.	$y = (x + 1)^2 - 2$	$X = -1$	$(-1, -2)$	$x = 1, y = 2$	$(-3, 2)$
3.	$y = x^2 + 3$	$X = 0$	$(0, 3)$	$x = 1, y = 4$	$(-1, 4)$
4.	$y = 2x^2$	$X = 0$	$(0, 0)$	$x = -1, y = 2$	$(1, 2)$
5.	$y = (x - 1)^2$	$X = 1$	$(1, 0)$	$x = -1, y = 4$	$(3, 4)$
6.	$y = 1 - x^2$	$X = 0$	$(0, 1)$	$x = -2, y = -3$	$(2, -3)$
7.	$y = -2x^2$	$X = 0$	$(0, 0)$	$x = 1, y = -2$	$(-1, -2)$
8.	$y = (x + 3)^2 - 5$	$X = -3$	$(-3, -5)$	$x = 0, y = 4$	$(-6, 4)$
9.	$y = -(x - 3)^2 + 1$	$X = 3$	$(3, 1)$	$x = 1, y = -3$	$(5, -3)$
10.	$y = (2 - x)^2$	$X = 2$	$(2, 0)$	$x = 0, y = 4$	$(4, 4)$

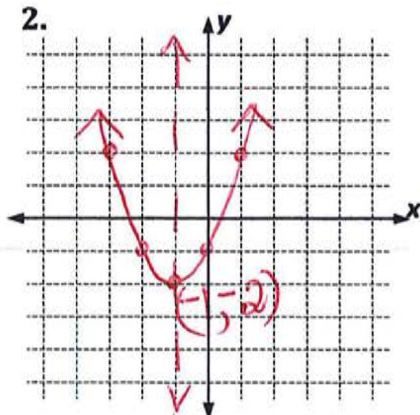
# GRAPHING PARABOLAS

Name Key

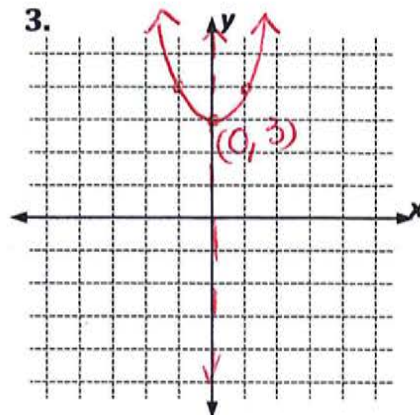
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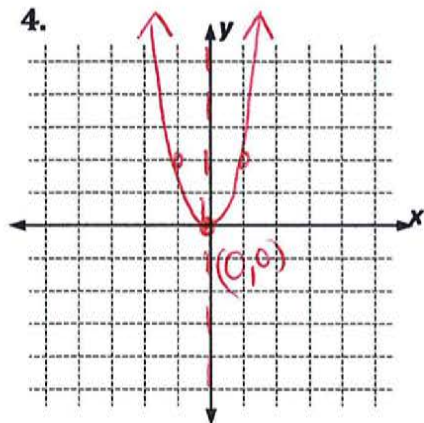
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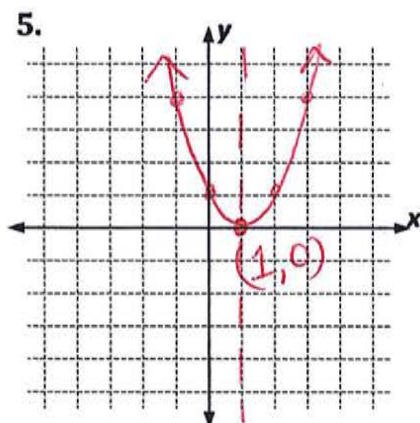
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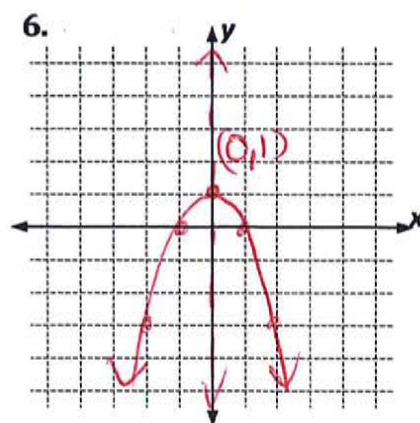
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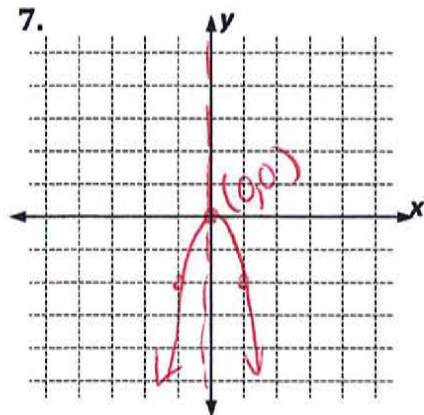
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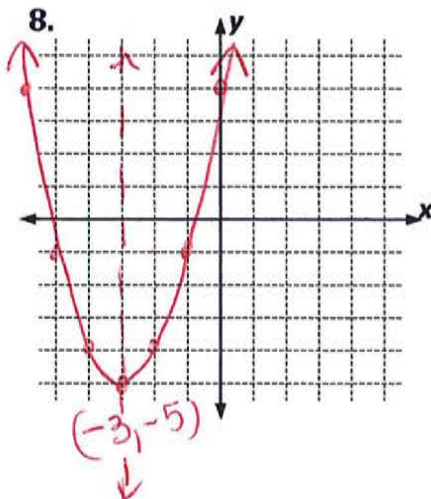
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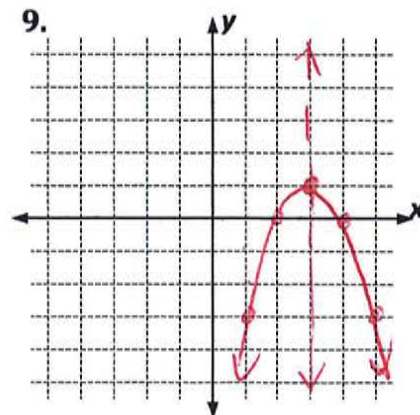
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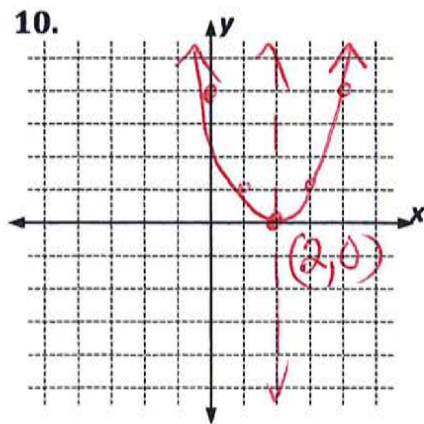
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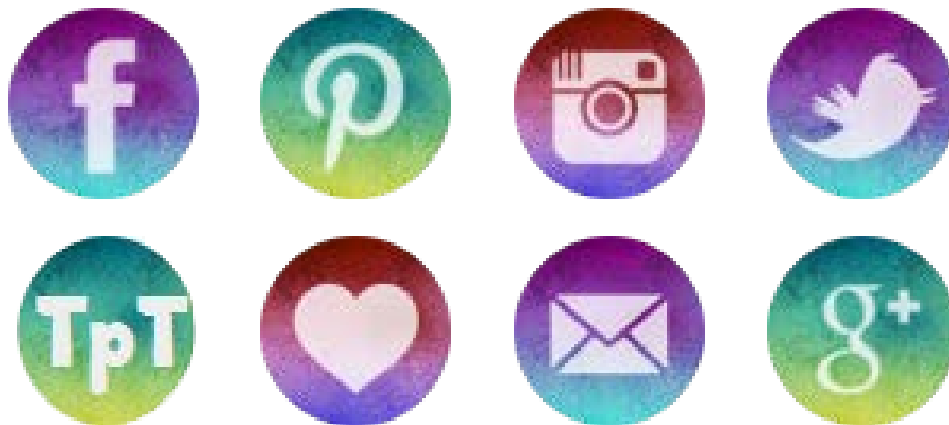


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