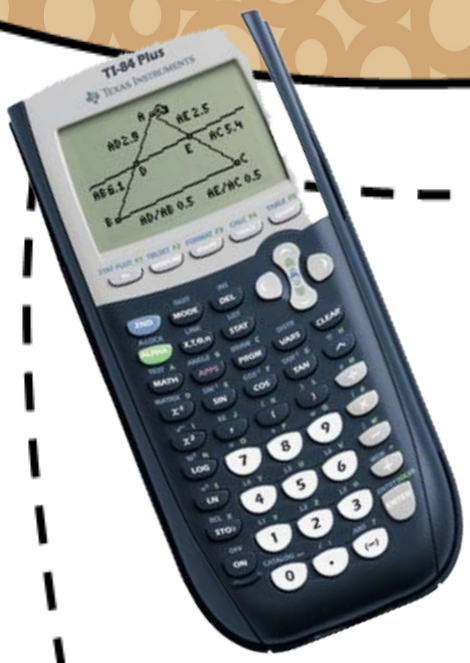

ALGEBRA 1
ALGEBRA 2

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.

Please visit my store for more engaging activities.

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.	$y = (2-x)^2$			$x = 0$, $y =$	

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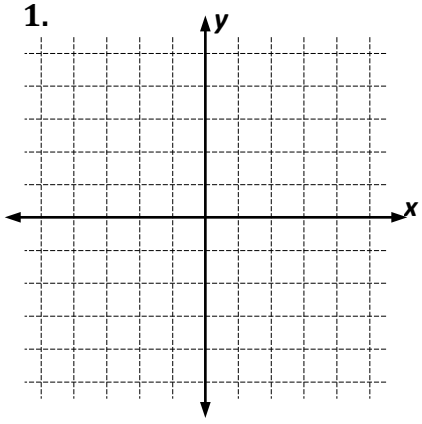
GRAPHING PARABOLAS

Name _____

1.



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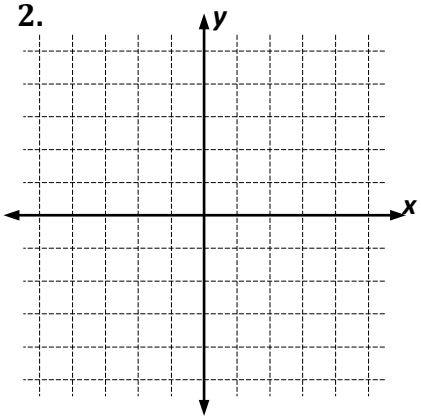

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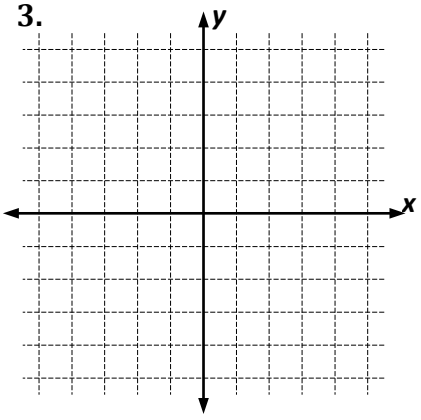

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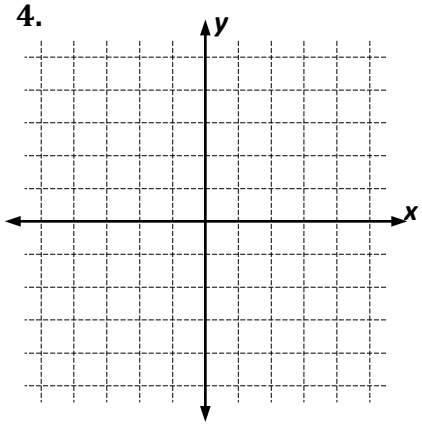

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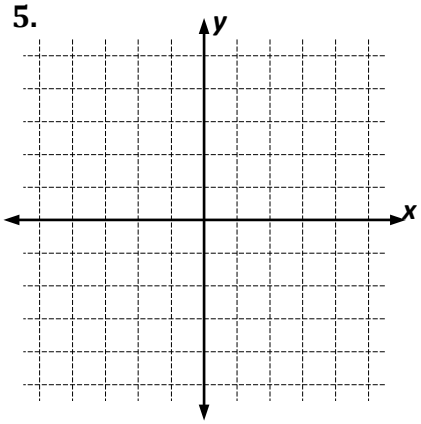

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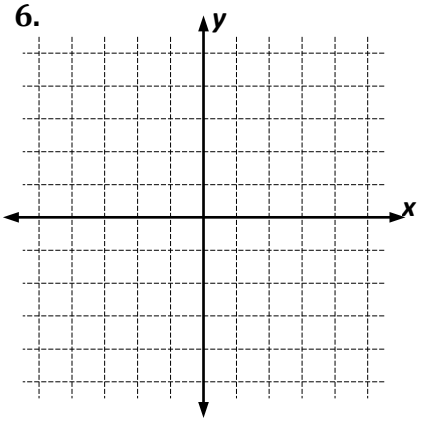

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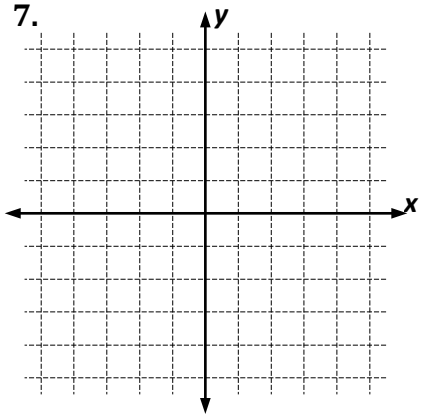

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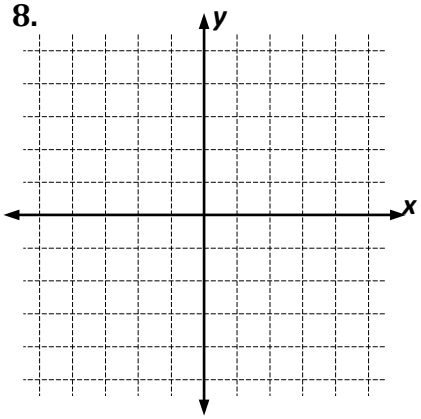

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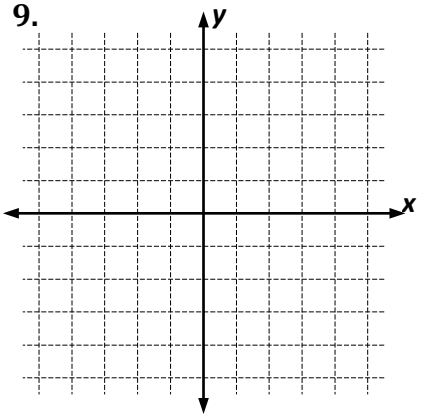

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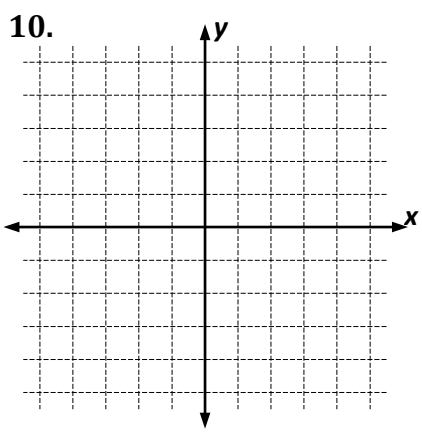

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Complete the table below. Then graph each parabola on the axes provided.

	Problem	Axis of Symmetry	Vertex	Substitution Point	Reflected Point
1.	$y = (x-2)^2$	$X=2$	$(2,0)$	$x=4$, $y=$ 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	$(4,4)$

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GRAPHING PARABOLAS

Name Key

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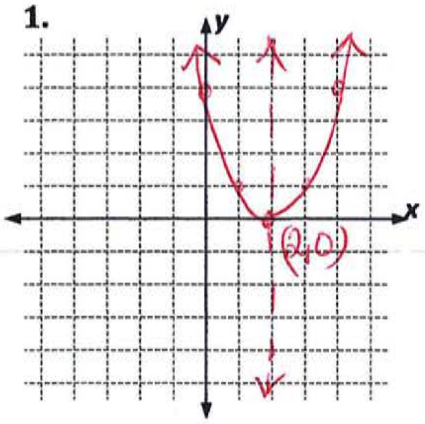

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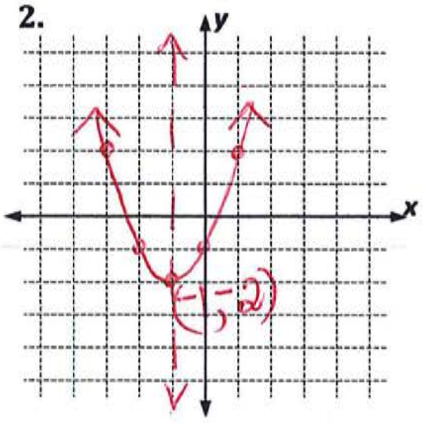

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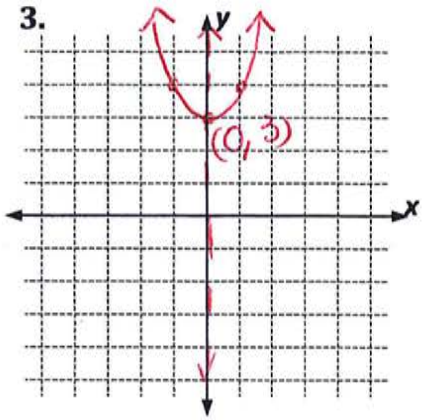

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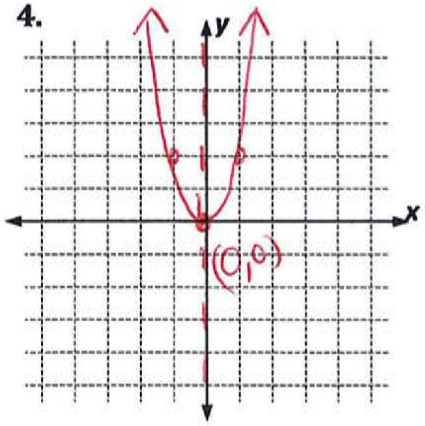

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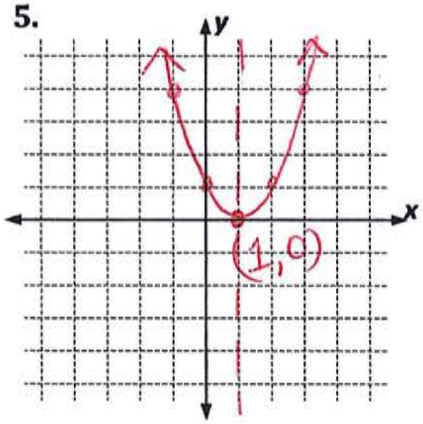

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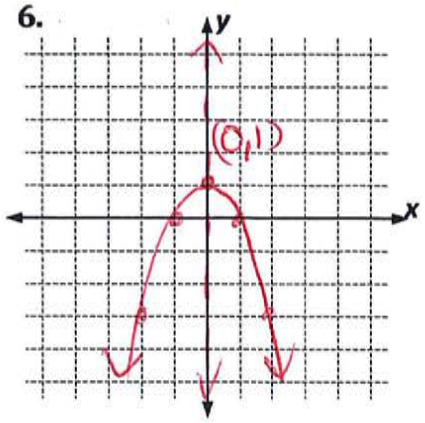

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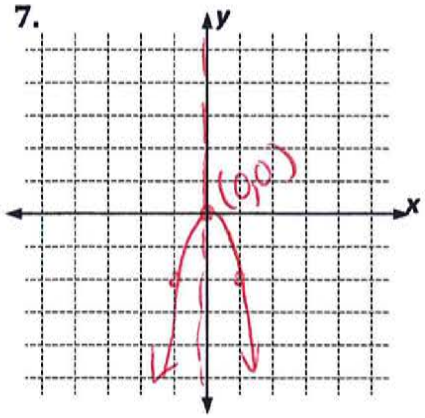

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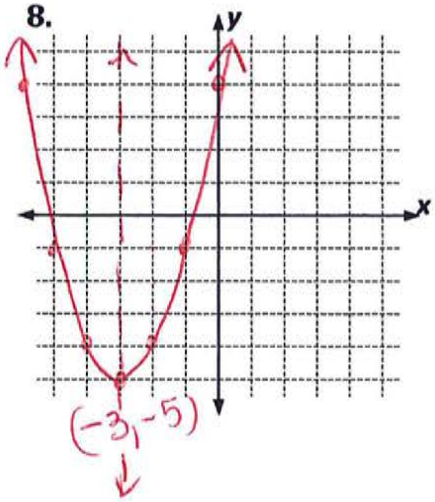

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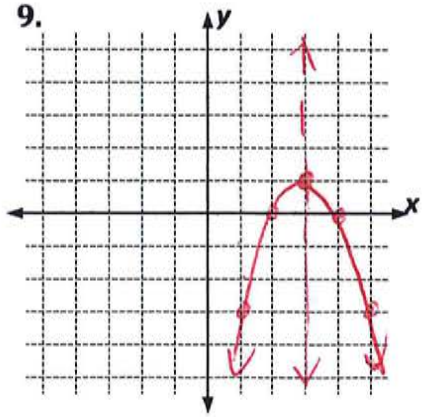

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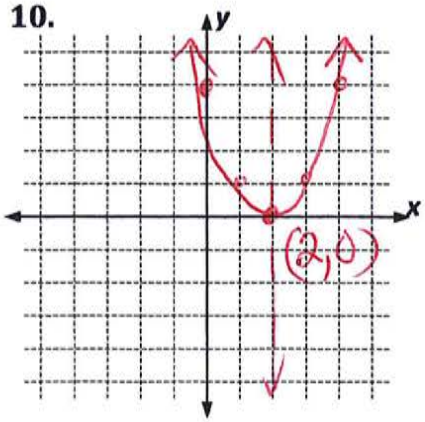

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