

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.

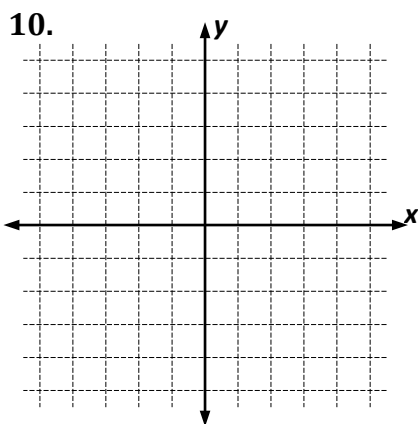
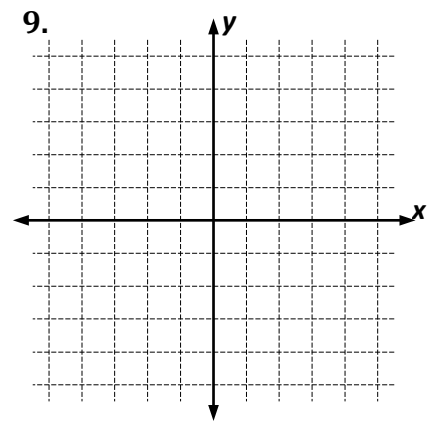
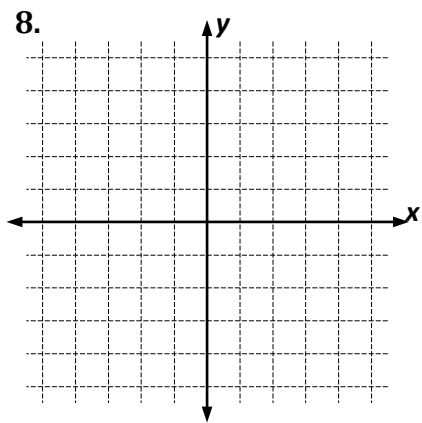
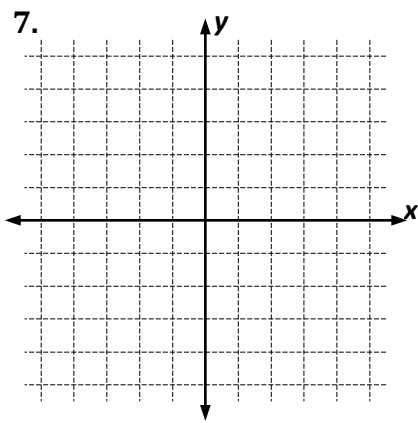
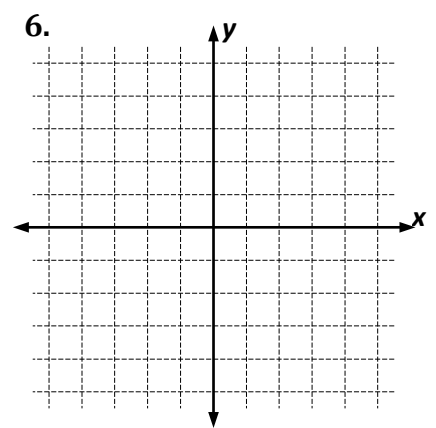
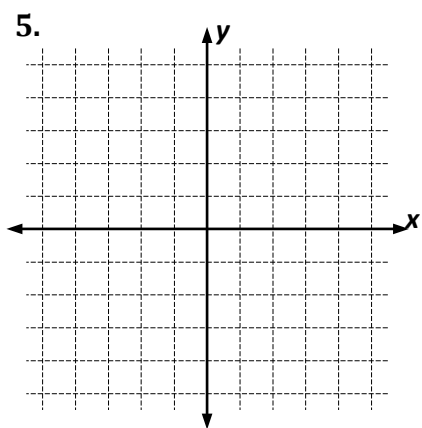
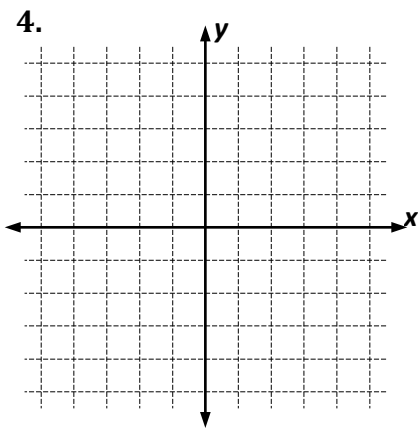
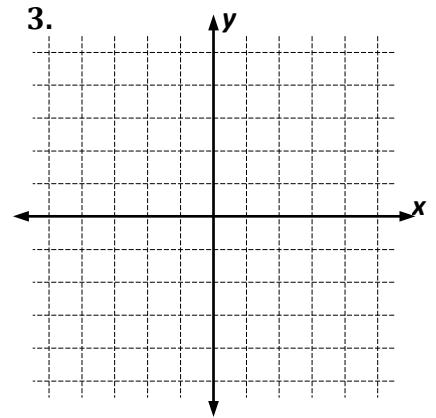
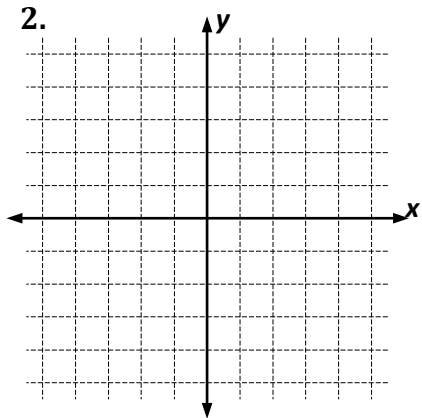
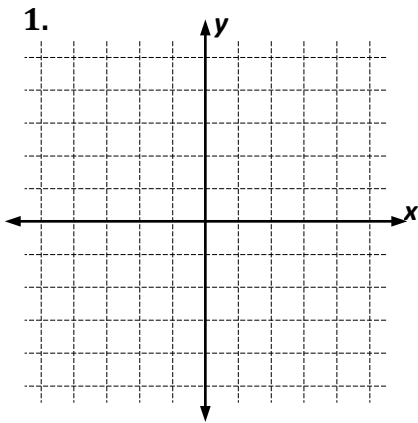
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Complete the table below. Then graph each parabola on the axes provided.

| | 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 _____



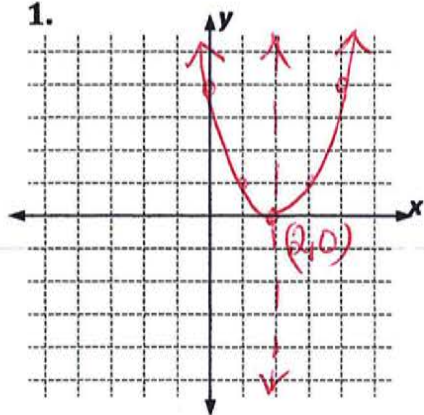
Complete the table below. Then graph each parabola on the axes provided.

| | 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. | $y = (2 - x)^2$ | $X = 2$ | $(2, 0)$ | $x = 0, y = 4$ | $(4, 4)$ |

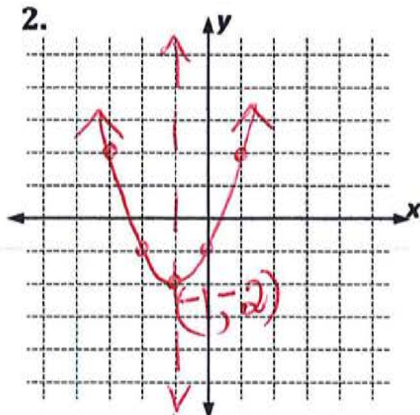
GRAPHING PARABOLAS

Name Key

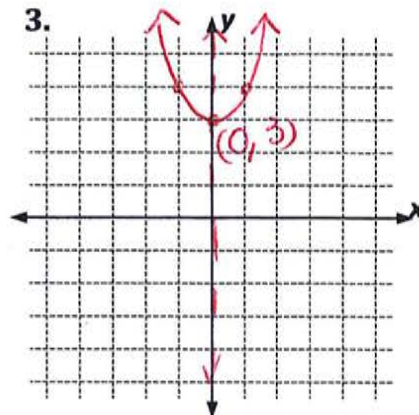
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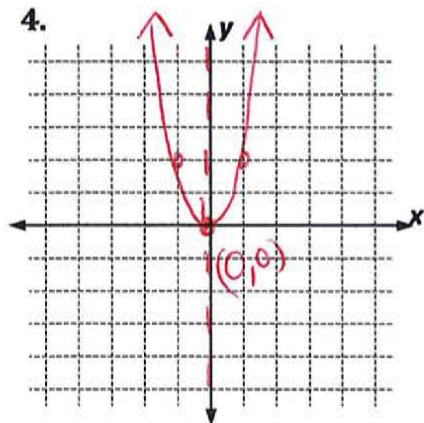
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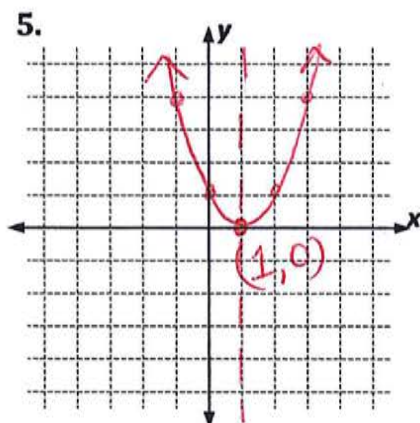
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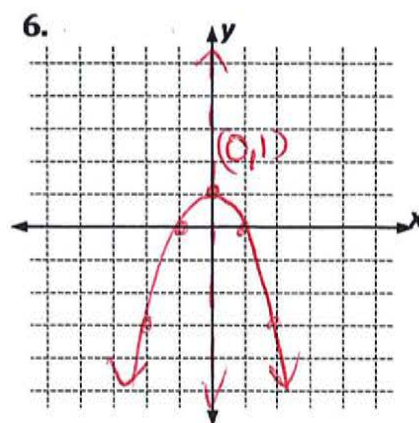
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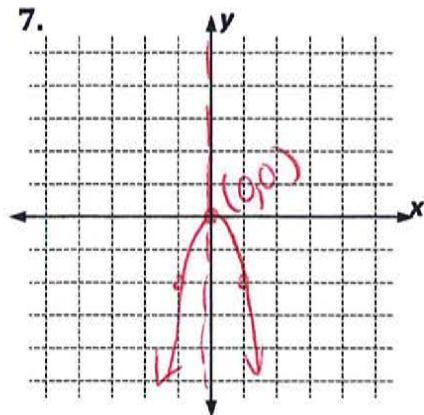
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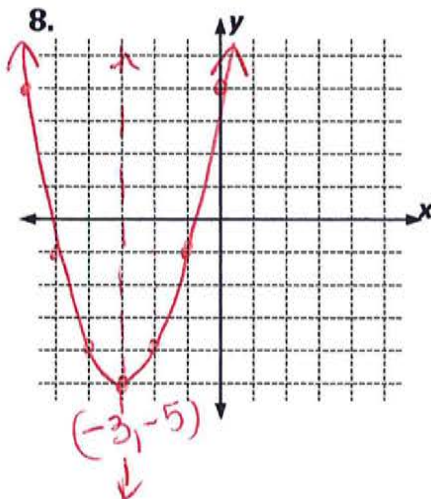
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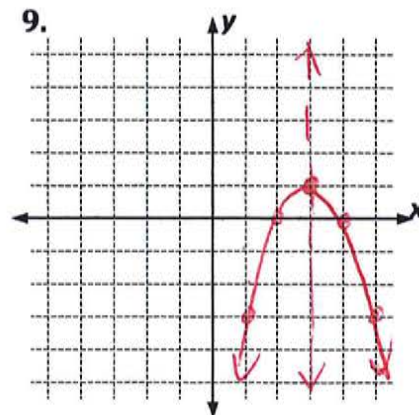
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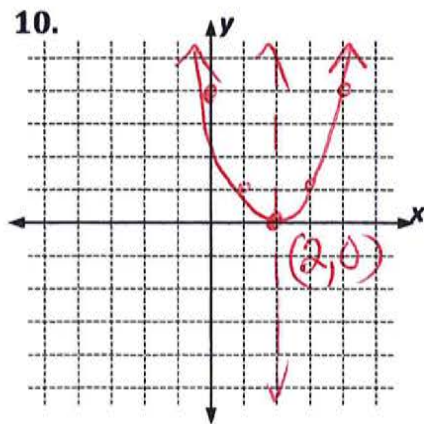
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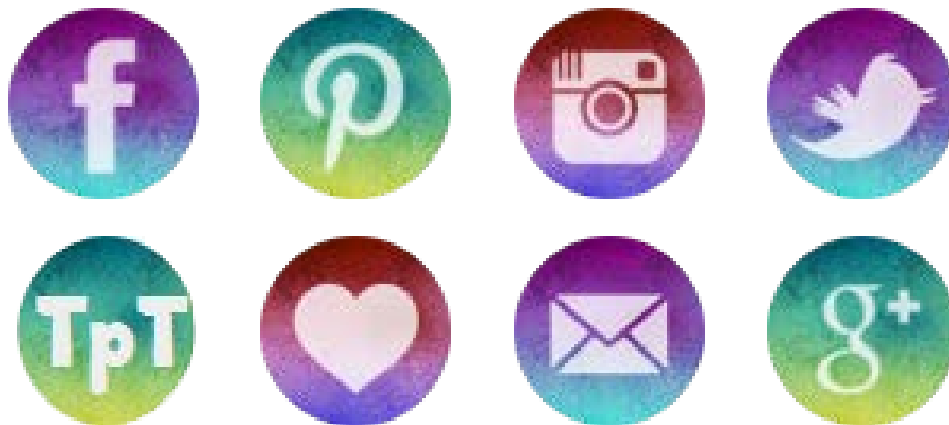


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