

Name: _____

Date: _____

Topic: _____

Class: _____

Main Ideas/Questions | **Notes/Examples**

Steps to Graph a
**QUADRATIC
EQUATION**

- ❶ Find the **axis of symmetry**.
- ❷ Find the **vertex**.
- ❸ Put the vertex in the middle row of the table. Fill in a table of values using your calculator.
- ❹ Plot the points and connect them into a smooth parabola!

EXAMPLES

Directions: Graph each quadratic equation using a table. Identify the axis of symmetry, vertex, domain, and range.

1. $y = x^2$

Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y

2. $y = x^2 + 2x - 1$

Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y

3. $y = -x^2 - 8x - 17$

Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y

4. $y = -2x^2 + 4x + 1$

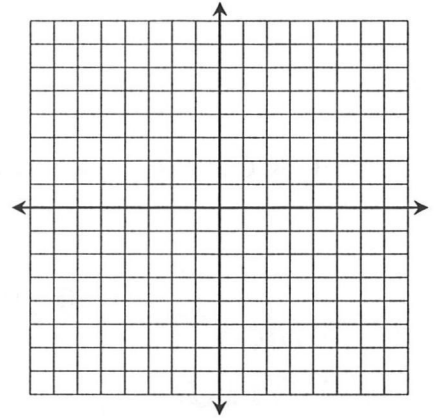
Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y



5. $y = x^2 - 6x + 11$

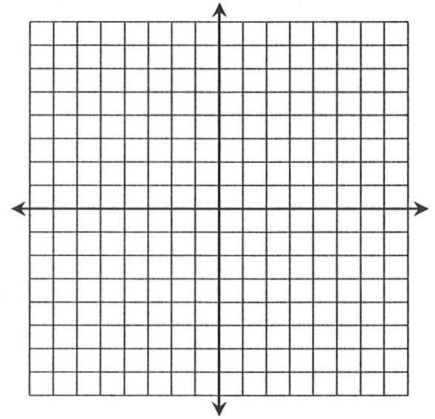
Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y



6. $y = -x^2 - 2$

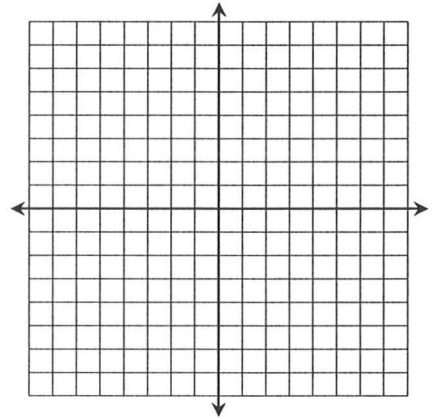
Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y



7. $y = 2x^2 + 8x$

Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y

