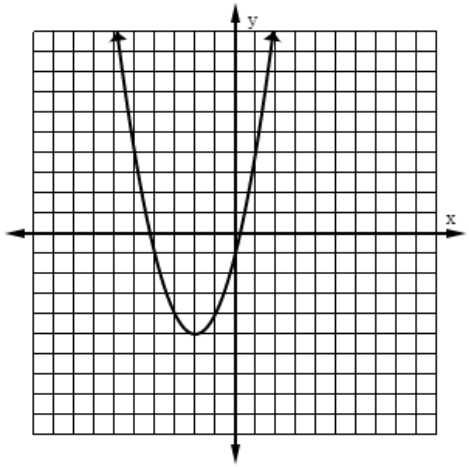
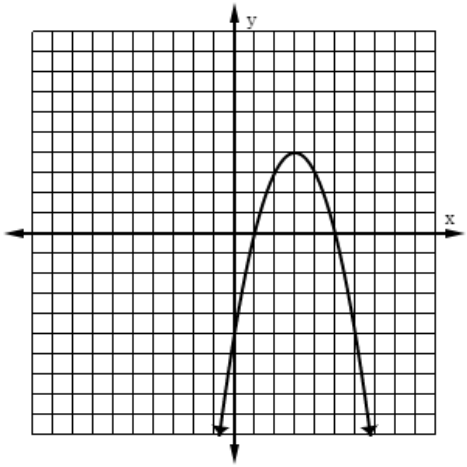
Analyzing Quadratic Graphs

GRAPH A	GRAPH B
	

Answer the questions given the graphs above.

1. What is the **axis of symmetry** for **Graph A**? _____

2. *What is the **axis of symmetry** for **Graph B**?* _____

3. What is the **vertex** of **Graph A**? _____ **Maximum** or **Minimum**? _____

4. What is the **vertex** of **Graph B**? _____ **Maximum** or **Minimum**? _____

5. Identify the **domain** and **range** of **Graph A**.

6. Identify the **domain** and **range** of **Graph B**.

7. Identify the **equation** for **Graph A**:

A. $y = x^2 - 4x - 1$ **C.** $y = -x^2 - 4x - 1$

B. $y = x^2 + 4x - 1$ **D.** $y = -x^2 + 4x - 1$

8. Identify the **equation** for **Graph B**:

A. $y = x^2 - 6x - 5$ **C.** $y = -x^2 - 6x - 5$

B. $y = x^2 + 6x - 5$ **D.** $y = -x^2 + 6x - 5$

Name: _____ **Unit 8:** Quadratic Equations

Date: _____ **Bell:** _____ **Homework 2:** Graphing Quadratic Equations

**** This is a 2-page document! ****

Graph each quadratic equation using a table of values. Identify all key characteristics.

1. $y = x^2 + 10x + 26$

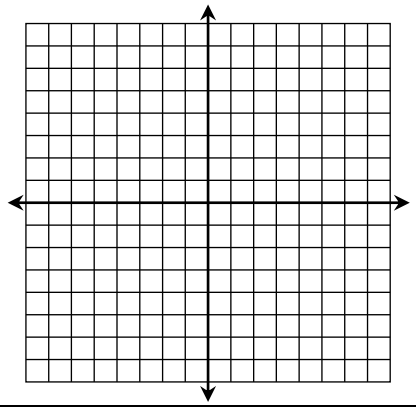
Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y



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

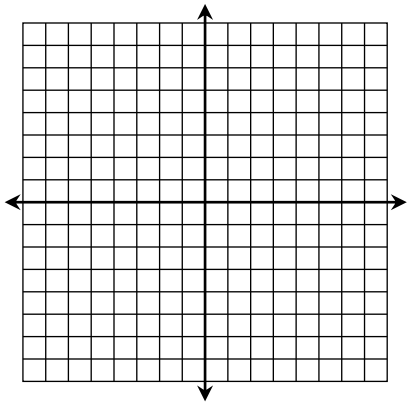
Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y



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

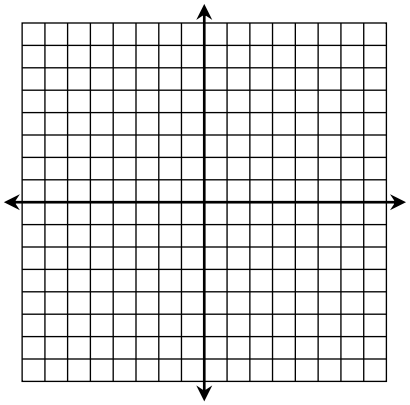
Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y



4. $y = -x^2 - 8x - 16$

Axis of Symmetry: _____

Vertex: _____

Domain: _____

Range: _____

x	y