Name:	Unit 8: Quadratic Equations	
Date:	Bell: Homework 1: Intro to Quadratics	
	** This is a 2-page document! **	
Complete the following st 1. The <u>standard form</u> of a qua	tatements. adratic equation is	
2. The <u>curve</u> formed by a quad	dratic equation is called a	
3. The formula for the axis of s	symmetry is	
4. If the <u>vertex</u> is the <u>highest</u>	<u>point</u> on the graph, it is called a	
5. If a <u>vertex</u> is the <u>lowest po</u>	on a graph, it is called a	
Find the axis of symmetry a Then, sketch the parabola a	and vertex for the following quadratic equations. and label all parts.	
6. $y = x^2 + 6x + 4$	Axis of Symmetry: Vertex:	
	Sketch:	
7. $y = -2x^2 + 8x - 5$	Axis of Symmetry: Vertex:	
	Sketch:	
8. $y = x^2 - 2x$	Axis of Symmetry: Vertex:	
	Sketch:	
9. $y = -x^2 - 8x - 9$	Axis of Symmetry: Vertex:	
	Sketch:	

Axis of Symmetry: _____ Vertex: ____

Sketch:

11.
$$y = x^2 - 4$$

Axis of Symmetry: _____ Vertex: _____

Sketch:

12.
$$y = -x^2 + 2x - 4$$

Axis of Symmetry: _____ Vertex: _____

Sketch:

13.
$$y = -3x^2$$

Axis of Symmetry: _____ Vertex: _____

Sketch:

14.
$$y = 2x^2 - 12x + 10$$

Axis of Symmetry: _____ Vertex: ____

Sketch:

15.
$$y = x^2 + 10x + 24$$

Axis of Symmetry: _____ Vertex: ____

Sketch: