Name:		Unit 8: Quadratic Equations		
Date:	Bell:	Homework 1: Introduction to Quadratics		
	** This is a 2-page	e document! **		
Directions: Complete the follo	wing statements.			
1. The standard form of a quad	lratic equation is		_•	
2. The curve formed by a quad	ratic equation is called	a		
<b>3.</b> The formula for the axis of s	ymmetry is			
<b>4.</b> If the vertex is the highest p	oint on the graph, it is	called a		
5. If a vertex is the lowest point on a graph, it is called a				
<b>Directions:</b> Find the axis of symmetry and vertex for the following quadratic equations. Then, sketch the parabola and label all parts.				
<b>6.</b> $y = x^2 + 6x + 4$	Axis o	f Symmetry: Vert	tex:	
	Sketc	h:		
<b>7.</b> $y = -2x^2 + 8x - 5$	Axis of	f Symmetry: Vert	ex:	
	Sketch	:		
<b>8.</b> $y = x^2 - 2x$	Axis o	f Symmetry: Vert	:ex:	
	Sketch	:		
<b>9.</b> $y = -x^2 - 8x - 9$	Axis of	Symmetry: Verte	ex:	
	Sketch	:		

<b>10.</b> $y = -5x^2 - 20x - 26$	Axis of Symmetry:	Vertex:
	Sketch:	
<b>11.</b> $y = x^2 - 4$	Axis of Symmetry	Vertev
	Skotobi	
	Sketch:	
<b>12.</b> $y = -x^2 + 2x - 4$	Axis of Symmetry:	Vertex:
	Sketch:	
<b>13.</b> $y = -3x^2$	Axis of Symmetry:	Vertex:
	Sketch:	
<b>14.</b> $y = 2x^2 - 12x + 10$	Axis of Symmetry:	Vertex:
	Sketch:	
<b>15.</b> $y = x^2 + 10x + 24$	Axis of Symmetry:	Vertex:
	Sketch:	