			Name:	
			Date:	Per:
	<u>WS – Graph</u>	ing and Solving Qua	adratic Equat	<u>ions</u>
ori	nulas Review:			
) \	What's the general form of a quad	dratic equation?		
) \	What coefficient variable helps d	letermine how a parabola opens	?	
Ι	f given only the quadratic equati	ion, what's the formula to figure	e out the axis of symm	etry?
1	What is the vertex of a parabola	?		
) (Given the coordinate (ordered pa	ir) of the vertex:		
V	Which coordinate helps indicate	the axis of symmetry?		
V	Which coordinate helps indicate	the greatest or least value?		
rac	etice:			
-	plugging it back into the equation $y = -2x^2 - 8x - 5$	a) Vertex:		
	y = -2x - 6x - 5	 b) Axis of Symmetry: c) Greatest/least value: 		
7)		b) Axis of Symmetry:		

Fill out the indicated information. (Clue: you may have to adjust the scales on the coordinate planes)



• The x-coordinate of the <u>vertex</u> is $\frac{-b}{2a}$ and then your	ful Reminders: need to plug that number	in to	find th	e y-c	oordii	nate.		
 The axis of symmetry is the vertical line through the 				5				
The was of symmetry is the vertical me through the								
1) $x^2 + 4x + 4 = y$	Γ							
a) Open up or down?	e)							_
b) Vertex:	-							+
	-				╈			+
c) Axis of Symmetry:	_							+
d) Greatest/least value:	_							
12) $y = -3x^2 - 6x$	Γ							Т
a) Open up or down?	e)				\square			┦
b) Vertex:					╀			+
	+				+			+
								+

d) Greatest/least value: _____

c) Axis of Symmetry: _____