MORE PRACTICE: Parabolas 2

For the given parabola, find the proper values:

	1. $y = -(x+1)^2 - 3$	2. $x = 2(y-3)^2 + 6$	3. $x = 4y^2 - 5$
direction of opening:			
	h = k =	h = k =	h = k =
	a =	a =	a =
The vertex:			
The focus:			
The directrix:			
The axis of symmetry			

Graph each parabola:



5.	x	=	<i>(y</i>	+	$(2)^2$	+	1
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6. $2(y+1) = (x-3)^2$

				1			1	
- 1)								
 -3	_	_	_		 _	_		
			0				0	
 - 23						_		
- 2			2					12

Write an equation for each parabola described below:

- 7. vertex = (0, 4) and focus = (0, 8)
- 8. vertex = (2, 4) and focus = (4, 4)
- 9. focus = (-1, 3) and directrix is y = 2

10. vertex = (-1, -1), axis of symmetry is x = -1, the measure of the latus rectum = 8, and a < 0