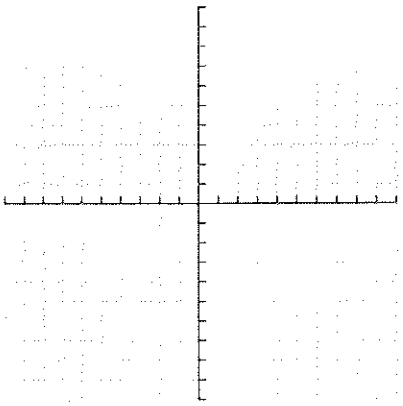
Parabola/Circle Review

Part I. Complete the Table for problems 1-4.

Equation	Vertex	P=	Opens	Squared Variable?	Horizontal or Vertical?
$x+4=16(y-3)^2$					
$y=\frac{1}{4}(x+6)^2$					
$x+1=-6(y+10)^2$					
$y=\frac{3}{4}(x-9)^2$					

Part II. Graph each of the following and state the vertex, focus, and directrix.

5. $y = -1/8(x+1)^2$

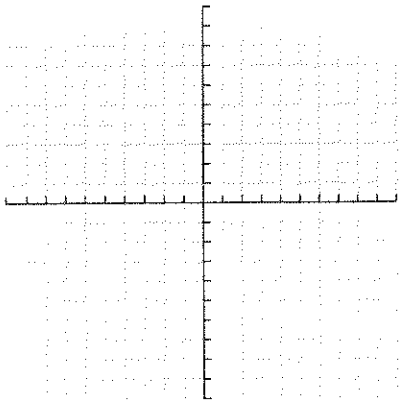


Vertex:_____

Focus:_____

Directrix:_____

6. $x-2 = (y-3)^2$



Vertex:_____

Focus:_____

Directrix:_____

Part III. Use the following information to write the equation for the parabola.

7. Focus: (1,-2) and Directrix y = 2 _____

8. Vertex: (-2,3) and Focus: (-5,3) _____

9. Focus: (-1, -2.5) and Directrix y = -3.5 _____

10. Focus: (0.-3) and Vertex: (5, -3) _____

(Circles) Put in Standard Form & Sketch Graph.

13. $x^2+y^2+4y+4-9=0$

14. $x^2+6x+y^2=7$

15. $x^2+y^2+2x+4y-11=0$