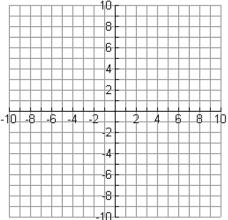
8.06b Parabolas and Circles Review WS #2

1. Identify the characteristics of the parabola. Graph and label all parts. $(y-2)^2 = -16(x+3)$

p =	
Vertex:	
Focus:	
Directrix:	
Axis of Symmetry:	
Focal Width	



2. Write the equation of the parabola $x^2 - 4x + 8y - 13 = 39$ in standard form. Identify the vertex, focus, directrix, axis of symmetry, and focal width. Graph the parabola and label all parts.

Standard Form:	
	6
p =	4
Vertex:	2
Focus:	-10 -8 -6 -4 -2 - 2 4 6 8 1D
Directrix:	
Axis of Symmetry:	
Focal Width:	

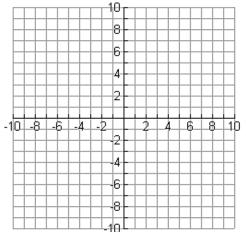
3. Write the standard form of the equation for the parabola with a focus at (2,1) and directrix at x = -2 Identify its characteristics. Graph the parabola and label all parts.

p = _____

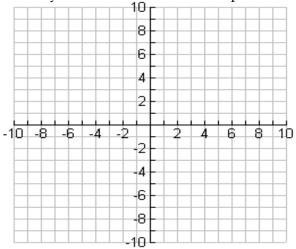
Vertex:

Directrix:

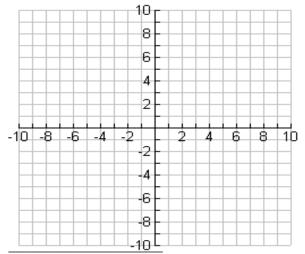
Axis of Symmetry: _____



4. Use the equation $x^2 + (y - 1)^2 = 4$ and Identify the center and radius. Graph the circle.

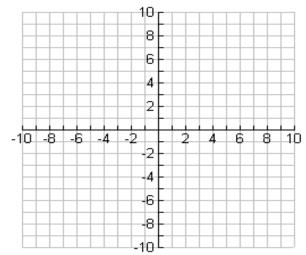


6. Given a circle with center (3,6), draw a circle that is tangent to y = 2, then write the equation of the circle.



8. Find the equation of a circle whose center is at (0, -8) and contains the point (2, -5).

5. Write the equation of a circle with center (1, 3) and radius= $\sqrt{12}$. Graph the circle.



7. Put the equation of the circle into standard form. Identify the center and radius. $x^2 + y^2 + 14x = 2y - 41$

9. Find the equation of a circle whose diameter has endpoints at (-13,-7) and (11, 11).