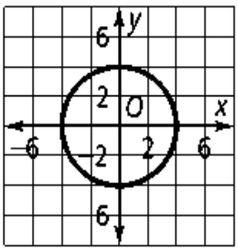
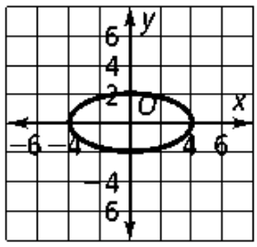
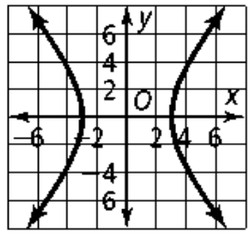
Algebra II Honors **10.1-10.5 Review** **Name**_____

Identify the type of each conic section. Give the center, domain, and range of each graph.







For each equation, Identify if the parabola open up/down/left/right, the vertex, A.O.S, x-int(s), and y-int.

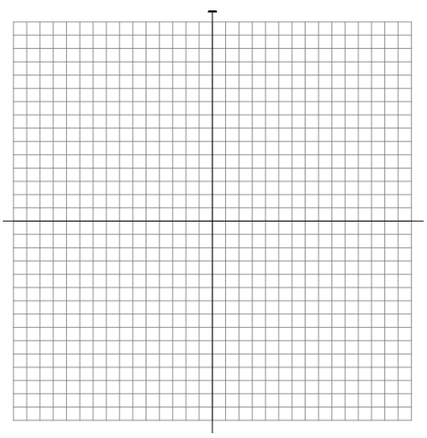
4) $y = 2x^2$

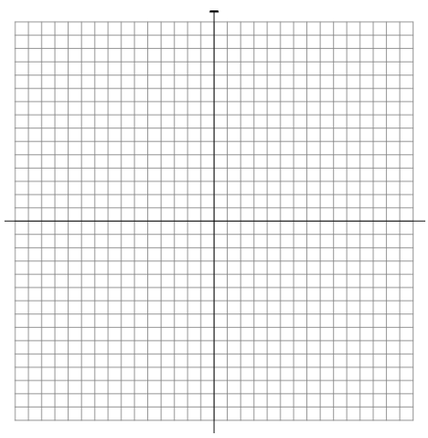
5) $-5y^2 - x = -5$

For each equation, Identify if the parabola open up/down/left/right, the vertex, A.O.S, x-int(s), and y-int. Then graph.

6) $y = x^2 - 8x + 11$

7) $x = \frac{1}{20}y^2$

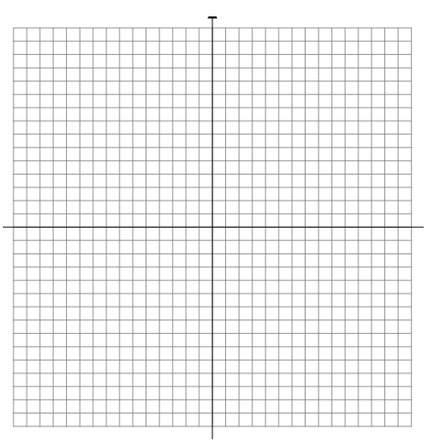


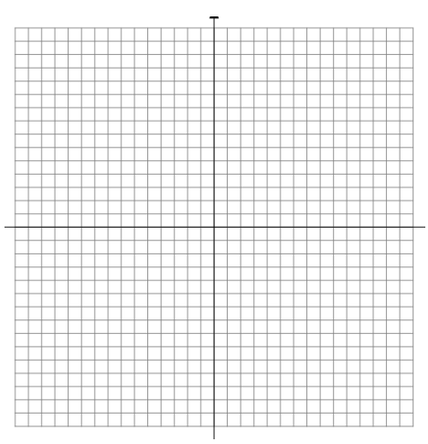


For each equation, find the center and the radius of the circle. Then graph the circle.

8) $x^2 + y^2 - 6x - 8y = -21$

9) $x^2 + y^2 + 16y = -15$

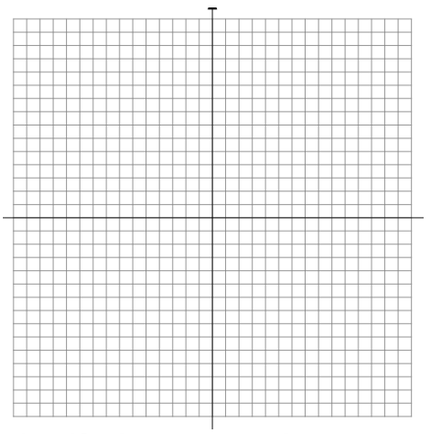


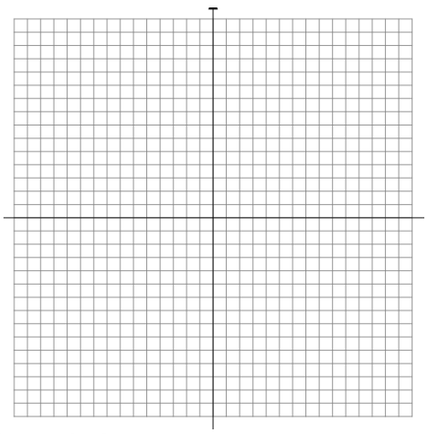


Find the center, then graph the ellipse.

10) $\frac{(x-4)^2}{25}+\frac{(y+3)^2}{9}=1$

11) $4x^2+y^2=36$





Identify the center and asymptotes, then graph the hyperbola.

12) $\frac{x^2}{16}-\frac{y^2}{9}=1$

13) $4x^2-y^2=16$