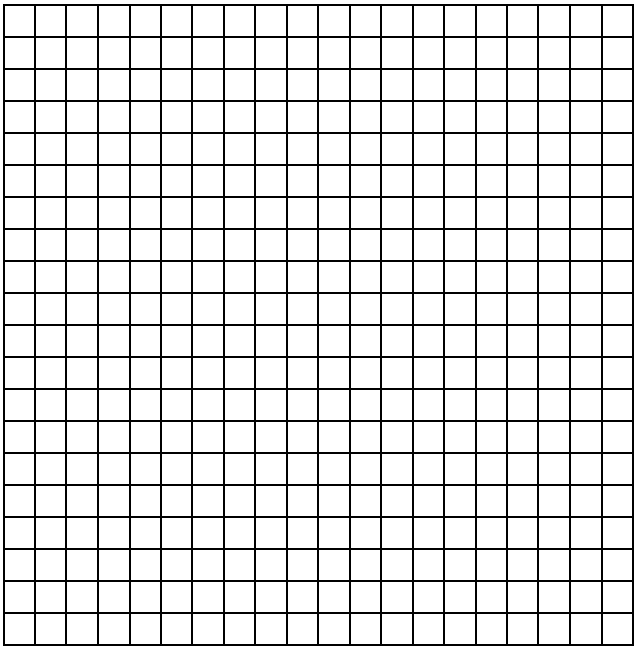
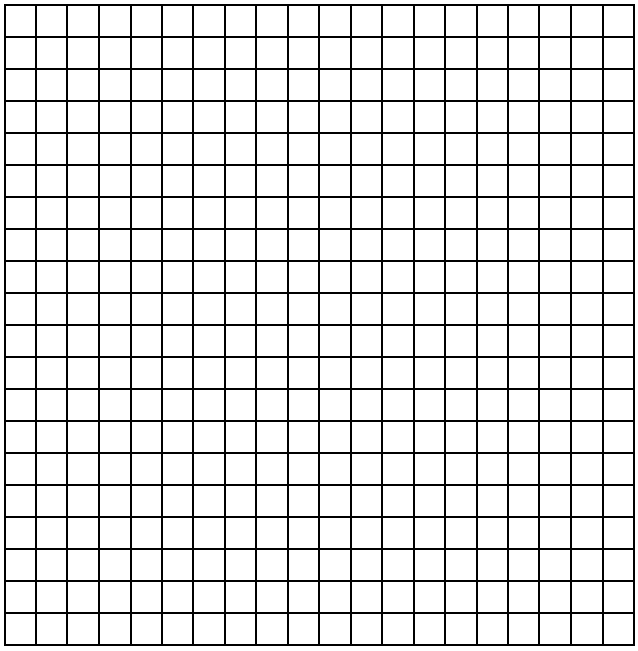
Conic Sections Review

Graph:

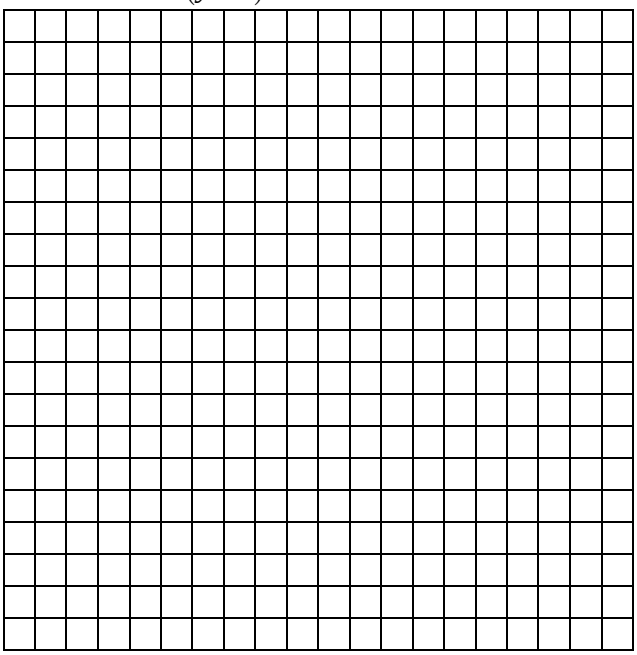
1. $\frac{(x+4)^2}{4}+\frac{(y-2)^2}{9}=1$



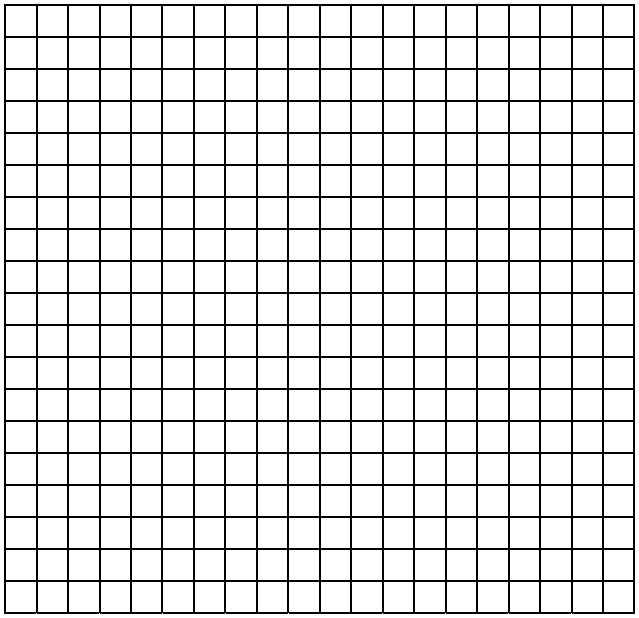
2. $\frac{(x-1)^2}{36}-\frac{(y-1)^2}{16}=1$



3. $x=3(y+1)^2-3$



4. $(x+5)^2+(y-2)^2=4$



5. For $(x-1)^2+(y+6)^2=144$, the center = (,) and the radius = _____.

6. For $\frac{(y-3)^2}{25}-\frac{(x+2)^2}{4}=1$, a = _____, b = _____, c = _____

7. For $y=(x+7)^2-2$, the focus = (,) and equation of the directrix is y = _____.

8. For $\frac{(x+1)^2}{100}+\frac{(y+1)^2}{16}=1$, a = _____, b = _____, c = _____

9. Write the equation of an ellipse, centered at the origin, with and the foci are (0, -5) and (0, 5), and the minor axis has a length of 4.

10. Write an equation of a hyperbola with foci (4, 2) and (4, 6), and vertices (4,3) and (4,5).