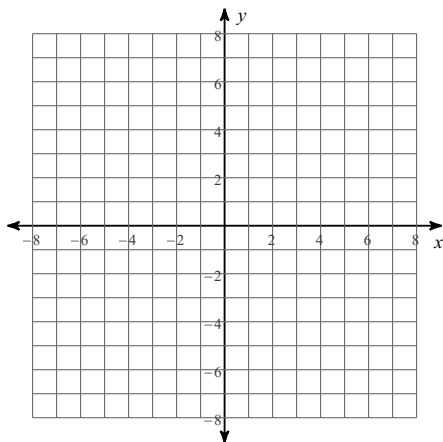


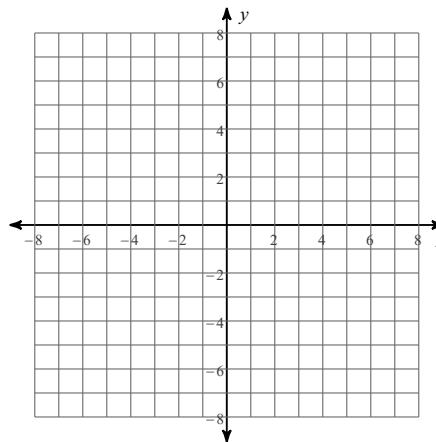
Hwk Hyperbolas

Graph each equation.

1) $\frac{(y - 1)^2}{16} - (x + 4)^2 = 1$



2) $4x^2 - 25y^2 + 150y - 325 = 0$



Use the information provided to write the general conic form equation of each hyperbola. What is the center of this hyperbola?

3) $\frac{(x + 1)^2}{81} - \frac{(y + 9)^2}{81} = 1$

Use the information provided to write the standard form equation of each hyperbola. Does this hyperbola open left and right or up and down?

4) $4x^2 - 9y^2 + 32x + 90y - 305 = 0$