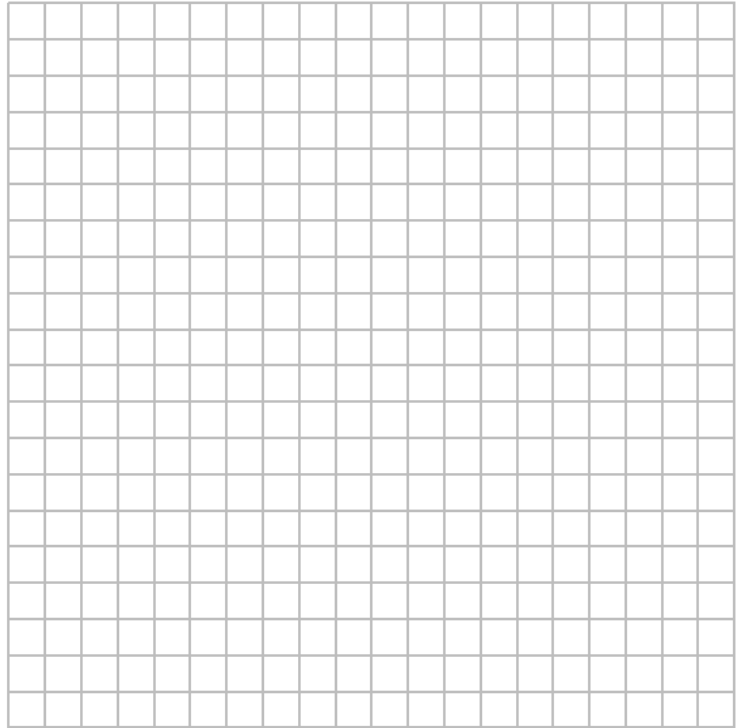


Graphing Ellipses and Hyperbolas

1. Sketch the graph of $9x^2 - 25(y - 1)^2 = 225$.

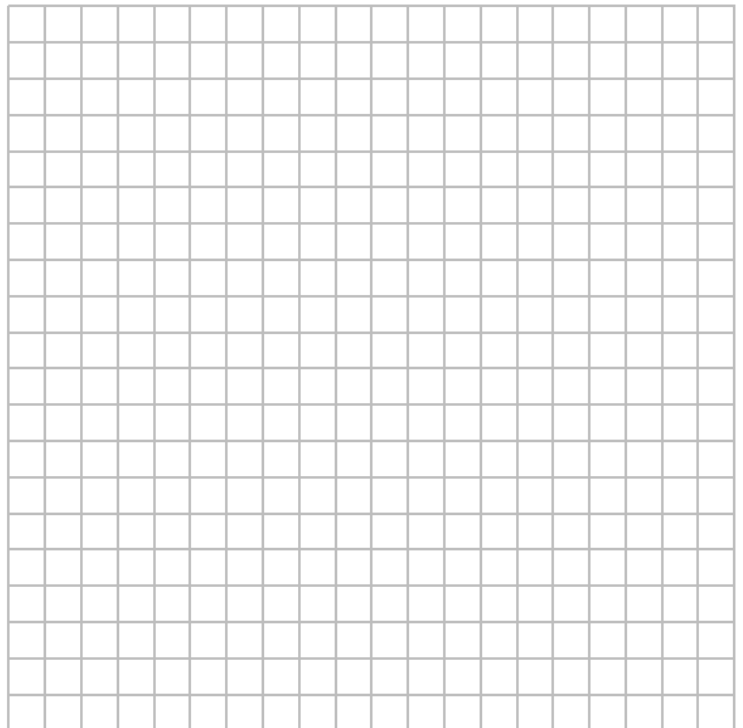
Length of Transverse Axis:	
Domain:	
Range:	



-
2. Solve the system of equations graphically.

$$4(x + 3)^2 + (y - 4)^2 = 16$$

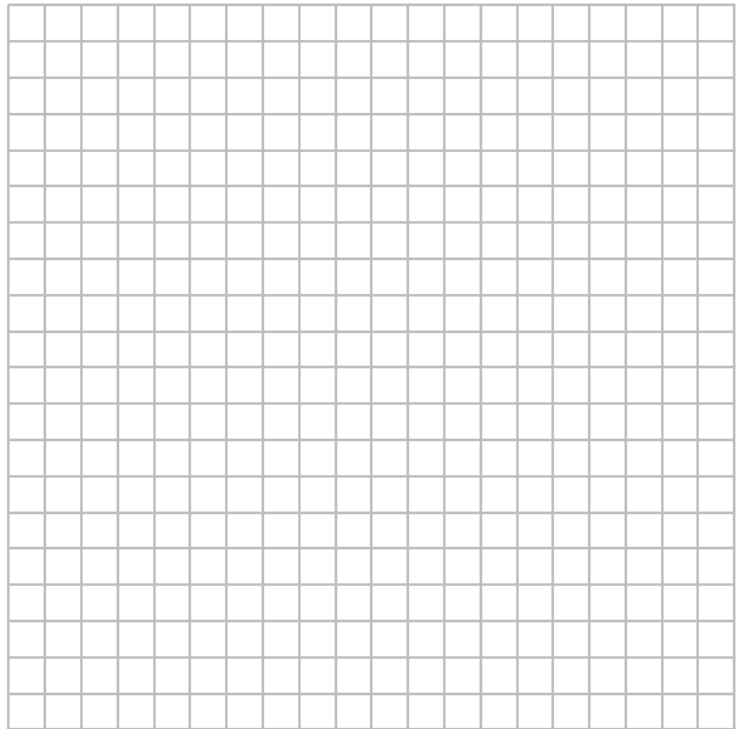
$$y = 2x + 6$$



3. Solve the system of equations graphically.

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

$$(x-3)^2 + y^2 = 4$$



-
4. Graph the following equations on the accompanying grid.

$$\frac{(x-2)^2}{4} + \frac{(y+3)^2}{36} = 1$$

$$xy = -12$$

Use your graphing calculator to find the coordinates of the point(s) of intersection. (Round to the nearest thousandth.)

