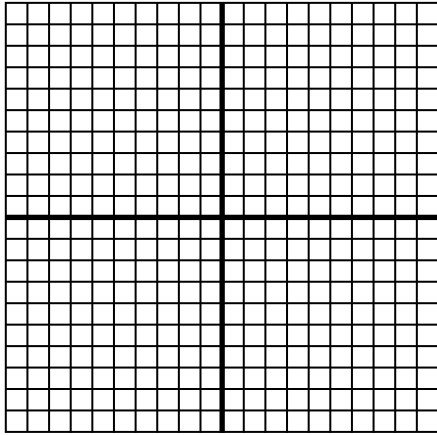


PAP PRECALCULUS
EVALUATE ELLIPSES

Name _____

Date _____ Period _____

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



Center _____

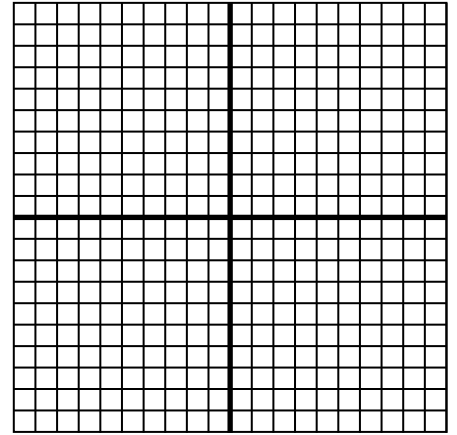
Vertices _____

Co-vertices: _____

Foci _____

Length of...Major Axis _____ Minor Axis _____

2) $4x^2 + 9y^2 = 36$



Center _____

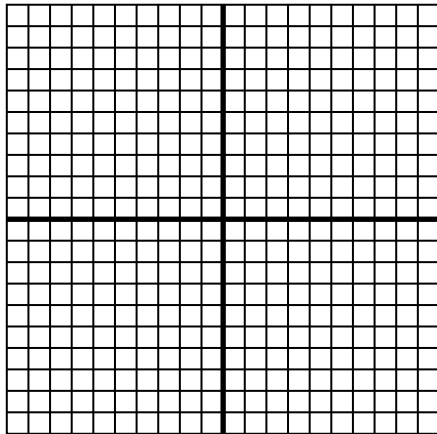
Vertices _____

Co-vertices: _____

Foci _____

Length of...Major Axis _____ Minor Axis _____

3) $\frac{(x-1)^2}{9} + \frac{(y-3)^2}{36} = 1$



Center _____

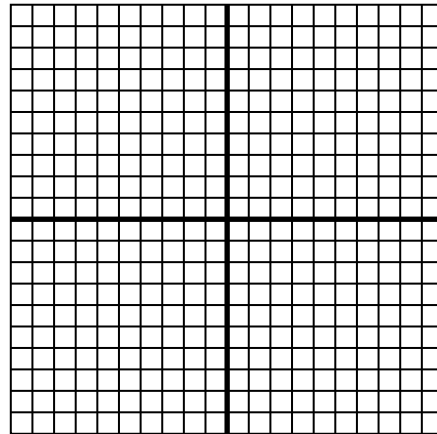
Vertices _____

Co-vertices: _____

Foci _____

Length of...Major Axis _____ Minor Axis _____

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



Center _____

Vertices _____

Co-vertices: _____

Foci _____

Length of...Major Axis _____ Minor Axis _____

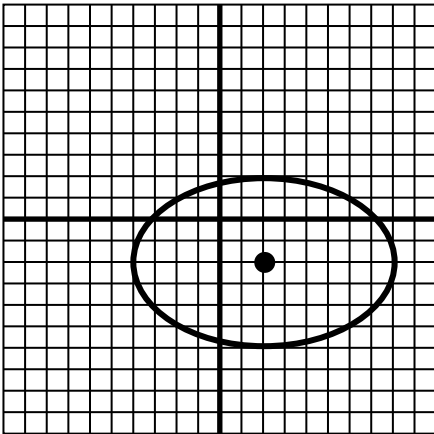
Complete the square to find the equations of the following ellipses in stand form.

5) $4x^2 + y^2 + 24x - 10y + 45 = 0$

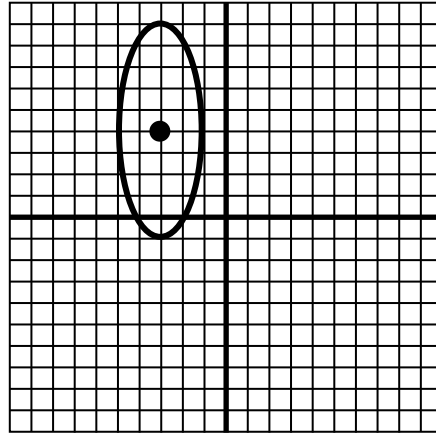
6) $5x^2 + 15y^2 + 10x + 30y = 100$

Write the equation given the graph:

7)



8)



Write the equation of the ellipse described below:

- 9) The major axis is 20 units in length and is parallel to the y-axis. The minor axis is 6 units in length and the center is located at (4, 2).

