

MORE PRACTICE: Ellipses

For the following ellipses, find the following:

$$1. \frac{(x+3)^2}{16} + \frac{y^2}{4} = 1$$

h = _____, k = _____, a = _____, b = _____

Center _____

Foci _____

Length of Major Axis _____

Length of Minor Axis _____

$$2. \frac{(x+2)^2}{81} + \frac{(y-6)^2}{121} = 1$$

h = _____, k = _____, a = _____, b = _____

Center _____

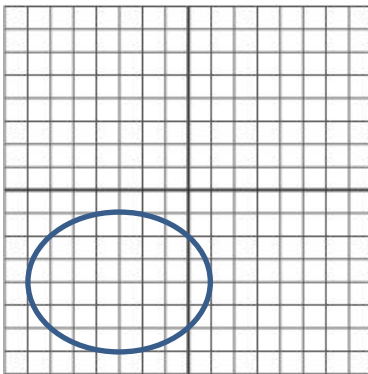
Foci _____

Length of Major Axis _____

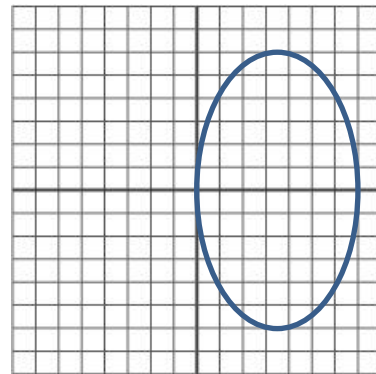
Length of Minor Axis _____

Write the equation of the ellipse:

3.

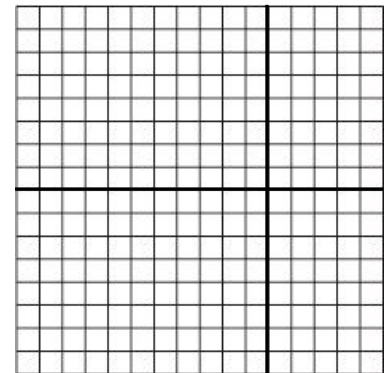


4.



Given the following properties, graph the ellipses and write the equation.

6. The endpoints of the major axis are (-4, 6) & (-4, -6), and the endpoints of the minor axis are (-7, 0) & (-1, -0).



7. The center is at (1, 4), one focus is at (3, 4) and the length of the minor axis is 6.

