PreCalculus **Name**_____
CW: 9.2 Ellipses **Date**_____ **Block**____

Find the center, vertices, co-vertices, and foci. Then graph the ellipse.

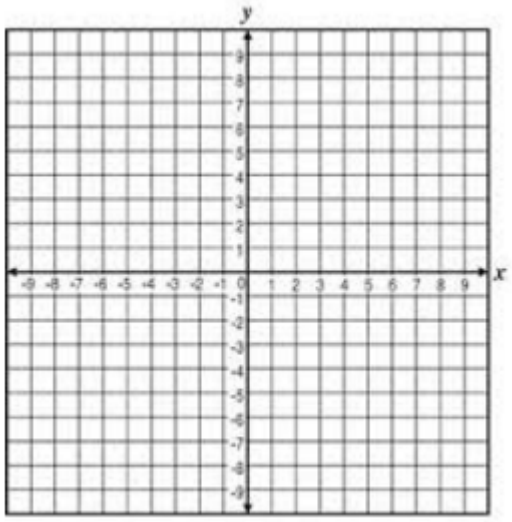
1.) $\frac{(x+2)^2}{9}+\frac{y^2}{49}=1$

Center:

Vertices:

Co-Vertices:

Foci:



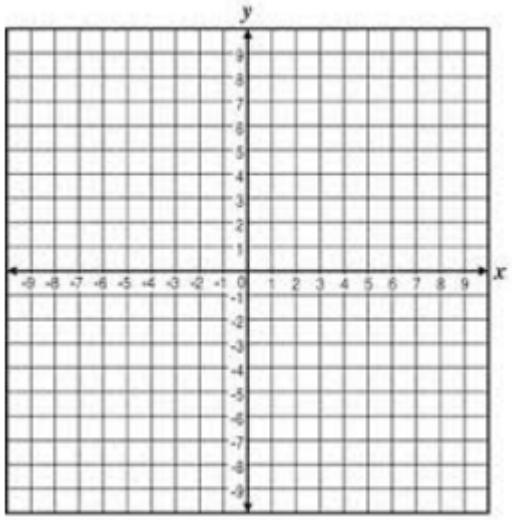
2.) $\frac{(x+4)^2}{9}+\frac{(y+3)^2}{4}=1$

Center:

Vertices:

Co-Vertices:

Foci:



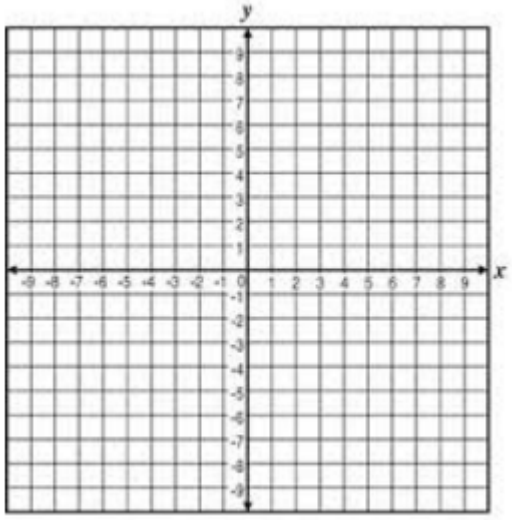
3.) $x^2+9y^2-14x+36y+49=0$

Center:

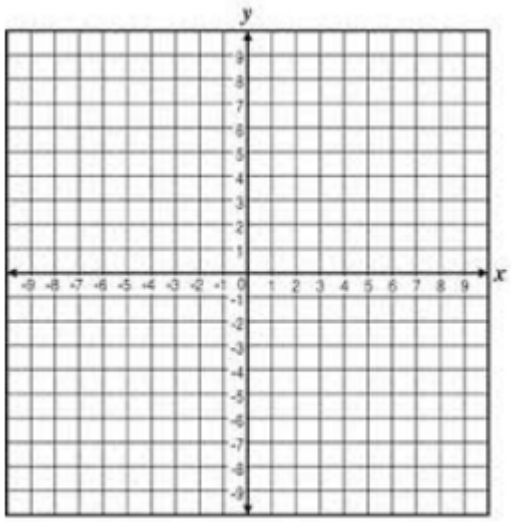
Vertices:

Co-Vertices:

Foci:



4.) $9x^2 + y^2 + 126x + 2y + 433 = 0$



Center:

Vertices:

Co-Vertices:

Foci:

Write the standard equation of the ellipse with the given information.

5.) Vertices: (-7, -3) and (13, -3)
Foci: (-5, -3) and (11, -3)

6.) Vertices: (4, 3) and (4, -9)
Length of Minor Axis: 8

7.) Major Axis: (-13, 2) and (1, 2)
Minor Axis: (-6, 4) and (-6, 0)

8.)