Alg 2B Hwk #24 Translating Ellipses Fall 2017 Name

For 1 and 2, state the coordinates of the Center, Vertices, Co-Vertices, and Foci.

1. $\frac{(x-9)^2}{289}+\frac{(y-4)^2}{225}=1$

Center:

Vertices:

Co-Vertices:

Foci:

2. $\frac{(x+3)^2}{81}+\frac{(y+1)^2}{169}=1$

Center:

Vertices:

Co-Vertices:

Foci:

3. The Center of an ellipse is $(-1,4)$ a Co-Vertex is $(4,4)$ and the Major Axis is 14 units long. Write the equation of this ellipse.

EQ:

4. The Vertices are $(-1,-2)$ and $(15,-2)$ and the minor axis is 6 units long. Write the equation of this ellipse.

EQ:

5. A Vertex of an ellipse is $(6,8)$ and the Foci are $(6,4)$ & $(6,-2)$. Write the equation of this ellipse.

EQ: