Worksheet 10.2

1. State the equation of the ellipse in standard form and label the characteristics listed. Graph the ellipse and label everything.

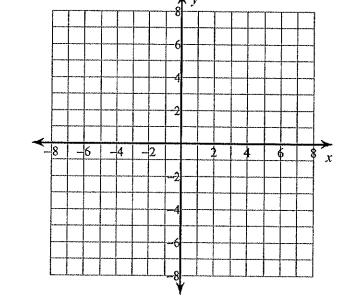
 $100x^2 + 9y^2 - 900 = 0$

Equation:		
FOHADOR:		

Major vertices:

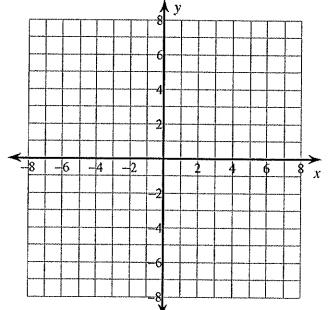
Minor vertices:

Foci: _____



2. State the equation of the ellipse in standard form and label the characteristics listed. Graph the ellipse and label everything.

$$\frac{(x-1)^2}{25} + \frac{(y+3)^2}{4} = 1$$



Equation: _____

Major vertices:

Minor vertices:

Foci: _____

Name:	#
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3. Write an equation for the ellipse: The endpoints of the major axis are at (-11,5) and (7,5). The endpoints of the minor axis are at (-2,9) and (-2,1)

4. Write the equation of an ellipse: with a center (3, -2), passing through (-4, -2), (10, -2), (3, 1), and (3, -5).

5. Write the equation of an ellipse: with center at (2, 5) with the longer axis of length 12 and parallel to the x-axis, shorter axis of length 10

6. Write an equation of an ellipse for the given foci $(0, \pm 8)$ and endpoints of $(\pm 4, 0)$