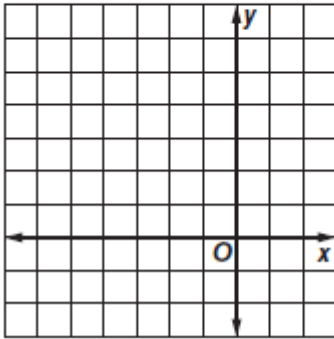


1.) "Complete the square" to put ellipse in standard form:

$$9x^2 + y^2 + 54x - 6y = -81$$



Orientation:

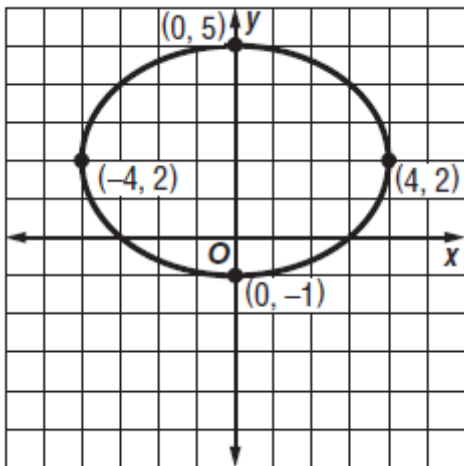
Center: (      ,      )

Major Axis length:

Minor Axis length:

Foci: (      ,      ) & (      ,      )

2.) Write an equation for the ellipse:



3.) Write an equation for an ellipse with:

endpoints of major axis  
at  $(2, 6)$  and  $(8, 6)$ ,  
endpoints of minor axis  
at  $(5, 4)$  and  $(5, 8)$