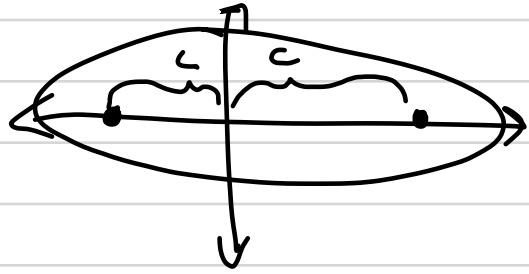


Ellipses

They look like ovals and have equations like this:

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$



Where $|a^2 - b^2| = c^2$

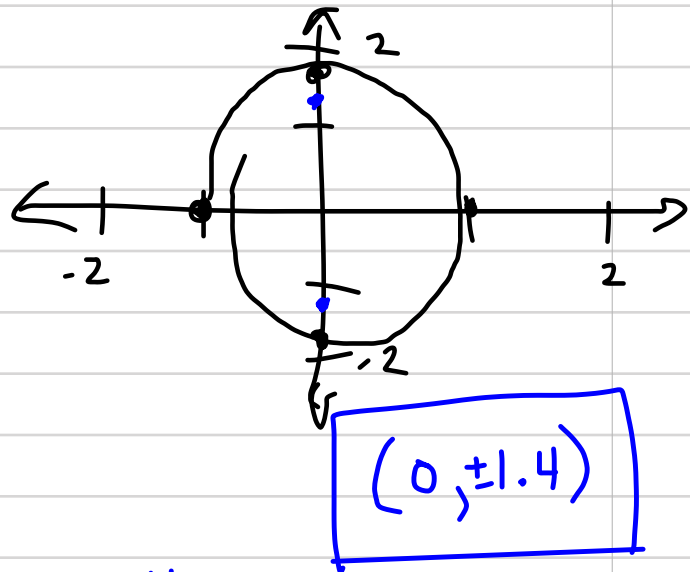
and the foci are located at $\pm c$ on the long axis.

1) Graph $\frac{9x^2}{9} + \frac{3y^2}{9} = \frac{9}{9}$

$$\frac{x^2}{1} + \frac{y^2}{3} = 1$$

$a^2 = 1$ $b^2 = 3$
 $a = 1$ $b = \sqrt{3} \approx 1.7$

$|1 - 3| = 2$ $c^2 = 2$
 $c = \sqrt{2} \approx 1.4$

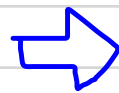


Find the coordinates of the foci.

make # on the Right equal to 1



Find a, b, and c.



Graph