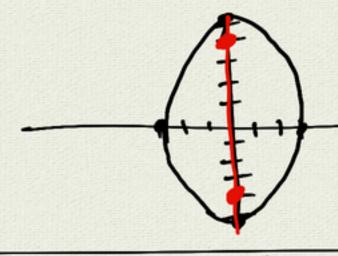


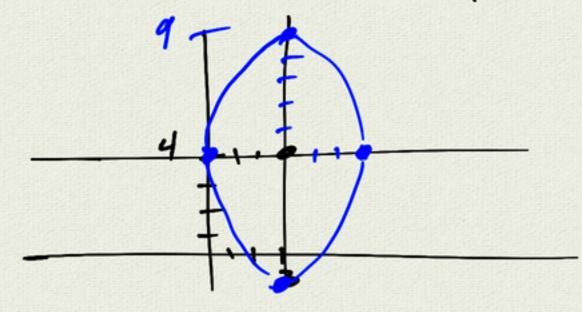
$$\frac{y^2}{9} = 1$$

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

$$= 25 - 9$$
  
 $= 16$ 



$$(x-3)^2$$
,  $(y-4)^2 = 1$ 



example 4
$$y^{2}+y^{2}-2x-4y-31=0$$

$$(x^{2}-2x+1)+(y^{2}-4y+4)=31$$

$$(x+a)^{2}=x^{2}+2x+a^{2}$$

$$\frac{x^{2}}{4} + \frac{y^{2}}{9} = 2 \implies \frac{x^{2}}{8} + \frac{y^{2}}{18} = 1$$
 $\frac{x^{2}}{4} + \frac{y^{2}}{9} = 2 \implies \frac{x^{2}}{8} + \frac{y^{2}}{18} = 1$ 
 $\frac{x^{2}}{4} + \frac{y^{2}}{9} = 2 \implies \frac{x^{2}}{8} + \frac{y^{2}}{18} = 1$