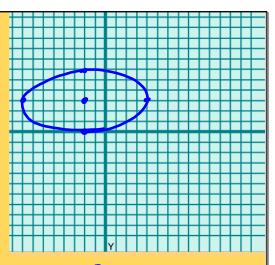


$$\frac{(x+2)^{2} + (y-3)^{2} = 1}{36}$$
Center  $(-2,3)$ 
 $a^{2}=36 \Rightarrow a=6$ 
 $b=\sqrt{9}=3$ 
Horiz  $(b_{1})$  is under  $(a_{1}+b_{2})$ 
Major axis =  $2a=2\cdot6=12$ 
Minor axis =  $2b=2\cdot3=6$ 
 $ecc.=\frac{2}{6}=\frac{3\sqrt{3}}{6}=0.866$ 
Foci:  $(-2+3\sqrt{3},3)$ 



$$C^{2} = 6^{2} - 6^{2}$$
 $C^{2} = 36 - 9$ 
 $VC^{2} = \sqrt{27} = 3$ 
 $C = \frac{1}{3}\sqrt{3}$ 

$$25x^{2} + 4y^{2} - 150x - 40y + 225 = 0$$

$$25x^{2} - 150x - 4y^{2} - 40y - 225$$

$$25(x^{2} - 6x + 9) + 4(y^{2} - 10y + 25) = -225$$

$$25(x^{2} - 6x + 9) + 4(y^{2} - 10y + 25) = -225$$

$$-3 + 100$$

$$25(x - 3)^{2} + 7(y - 5)^{2} = 100$$

$$(x - 3)^{2} + (y - 5)^{2} = 1$$

$$(2nter(3,5))$$

$$a = \sqrt{3} = 5$$

$$b = \sqrt{4} = 2$$

$$b = \sqrt{4} = 2$$

$$\sqrt{2} = 25 - 4$$

$$\sqrt{2} = 25 -$$

