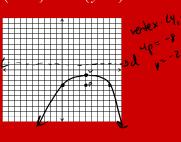
## Graph the parabola:

$$(x-4)^2 = -8(y+1)$$

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Write the equation of the conic in Standard form:

$$3x^2 - 5y^2 + 12x - 10y + 2 = 0$$

Write the equation of the conic in Standard form:

$$3x^2 + 5y^2 + 12x - 10y + 2 = 0$$

$$3x^2 + 12x - 5y^2 - 10y = -2$$

$$3x^{2}+12x-5y^{2}-10y=-2$$
  
 $3(x^{2}+4x+4)-5(y^{2}+2y+1)=-2+12+5$ 

$$3(x+2)^2 - 5(y+1)^2 = 15$$

$$\frac{3(x+2)^{2}-5(y+1)^{2}=15}{\left[\frac{(x+2)^{2}}{5}-\frac{(y+1)^{2}}{3}=1\right]}$$

Write the equation of the conic in parametric form:

$$\frac{(x-4)^2}{16} - \frac{(y+1)^2}{36} =$$

Write the equation of the conic in parametric form:

$$\frac{(x-4)^2}{16} - \frac{(y+1)^2}{36} = 1$$

$$X = 4 + 4 \sec t$$
  
 $Y = -1 + 6 \tan t$ 

Find the coordinates of the Focal points of the shape:

$$\frac{(x-4)^2}{16} - \frac{(y+1)^2}{4} = 1$$

Find the coordinates of the Focal points of the shape:

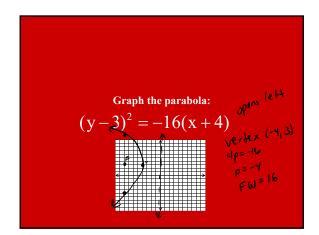
$$\frac{(x-4)^{2}}{16} - \frac{(y+1)^{2}}{4} = 1$$

$$c^{2} = |b| + 4$$

$$c^{2} = 25$$

$$(4 + 255 - 1) (4 - 255 - 1)$$

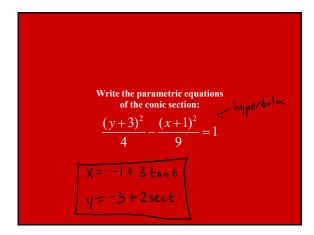
$$(y-3)^2 = -16(x+4)$$



Write the equation of an hyperbola that has foci at (0,6) and (0,-6) and the length of the transverse axis is 8.

Write the equation of an hyperbola that has foci at (0,6) and (0,-6) and the length of the transverse axis is 8.  $C = 6 \quad \alpha = 4 \quad b = ?^{2}$   $3b = 7b + b^{2}$   $b^{2} = 20$   $\sqrt{\frac{y^{2}}{16} - \frac{x^{2}}{20}} = 1$ 

Write the parametric equations of the conic section:  $\frac{(y+3)^2}{4} - \frac{(x+1)^2}{9} = 1$ 



Write the equation of the conic section in standard form:

$$5y^2 - 6x^2 + 12x + 20y + 44 = 0$$

$$5y^{2} - 6x^{2} + 12x + 20y + 44 = 0$$

$$5y^{2} + 20y - 6x^{2} + 12x = -94$$

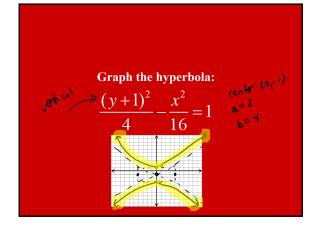
$$5(y^{2} + 49y + 9) - 6(x^{2} - 2x + 1) = -44 + 20 + 6$$

$$5(y + 2)^{2} - 6(x - 1)^{2} = -30$$

$$\frac{(x - 1)^{2}}{5} - \frac{(y + 2)^{2}}{6} = 1$$

Graph the hyperbola:

$$\frac{(y+1)^2}{4} - \frac{x^2}{16} = 1$$



Write the conic section in standard form:

$$y^2 - 8y - 8x = -24$$

Write the conic section in standard form:

$$y^{2} - 8y - 8x = -24$$

$$y^{2} - 8y = 8x - 24$$

$$y^{2} - 8y + 16 = 8x - 24 + 16$$

$$(y - 4)^{2} = 8x - 8$$

$$|(y - 4)^{2} = 8x - 8$$

Write the parametric equations for the

$$\frac{\left(x+1\right)^2}{64} - \frac{\left(y-11\right)^2}{36} = 1$$

conic section:  

$$\frac{(x+1)^{2}}{64} - \frac{(y-11)^{2}}{36} = 1$$

$$|x = -| + 8 \sec t$$

$$|y = 1| + 6 \tan t$$

Find the coordinates of the foci of the conic

$$\frac{(x-4)^2}{4} - \frac{(y+2)^2}{36} = 1$$

Find the coordinates of the foci of the conic section:

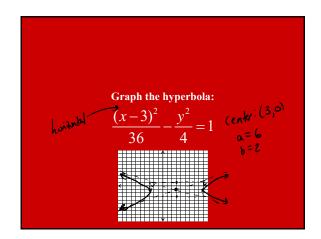
$$(x-4)^{2} - \frac{(y+2)^{2}}{36} = 1$$

$$c^{2} = a^{2} + b^{2}$$

$$c^{3} = a^{2} + b^{2}$$

$$c^{4} =$$

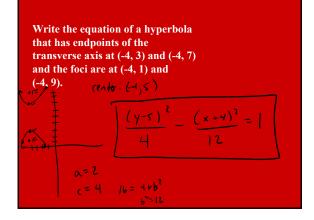
Graph the hyperbola:  $\frac{(x-3)^2}{36} - \frac{y^2}{4} = 1$ 



Write the equation of a parabola that has a directrix at x = 4 and the vertex is at the point (0, 6).

Write the equation of a parabola that has a directrix at x = 4 and the vertex is at the point  $\begin{pmatrix}
0, 6 \\
 & (0, 6)
\end{pmatrix}$ 

Write the equation of a hyperbola that has endpoints of the transverse axis at (-4, 3) and (-4, 7) and the foci are at (-4, 1) and (-4, 9).



Write the parametric equations of the conic section:

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

Write the parametric equations of the conic section:

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

$$X = 4 + 2t$$

$$Y = -1 + t^{2}$$