

## Write the equation of the conic in

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Standard form:
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$$
3 x^{2}-5 y^{2}+12 x-10 y+2=0
$$

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$$

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

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

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

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

Write the equation of the conic in parametric form:

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

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Find the coordinates of the
Focal points of the shape:

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

Graph the parabola:

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



Find the coordinates of the Focal points of the shape:

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



Write the equation of an hyperbola that has foci at $(0,6)$ and $(0,-6)$ and the length of the transverse axis is 8 .
 $c=6 \quad a=4 \quad b=? ?$
$36=16+b^{2}$



Write the equation of the conic section in standard form:

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

Write the equation of the conic section in standard form:

$$
\begin{aligned}
& 5 y^{2}-6 x^{2}+12 x+20 y+44=0 \\
& 5 y^{2}+20 y-6 x^{2}+12 x=-44 \\
& 5\left(y^{2}+4 y+4+-6\left(x^{2}-2 x+1\right)=-44+20+\frac{-6}{-}\right. \\
& 5(y+2)^{2}-6(x-1)^{2}=-30 \\
& \frac{(x-1)^{2}}{5}-\frac{(y+2)^{2}}{6}=1
\end{aligned}
$$



Write the conic section in standard form:

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

Write the conic section in standard form:

$$
\begin{aligned}
& y^{2}-8 y-8 x=-24 \\
& y^{2}-8 y=8 x-24 \\
& y^{2}-8 y+16=8 x-24+16 \\
& (y-4)^{2}=8 x-8 \\
& (y-4)^{2}=8(x-1)
\end{aligned}
$$

Write the parametric equations for the


Find the coordinates of the foci of the conic section:

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

Find the coordinates of the foci of the conic



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


Write the parametric equations of the conic section:

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

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

$x=4+2 t$

