


7. $y^{2}-\underline{5 x^{2}}+\underline{20 x}=50$

$$
\begin{aligned}
& y^{2}-5\left(x^{2}-4 x+4\right)=50-\frac{-5(4)}{} \\
& \frac{(y-0)^{2}}{30}-\frac{5(x-2)^{2}}{30}=\frac{30}{30} \\
& \frac{y^{2}}{30}-\frac{(x-2)^{2}}{6}=1 \\
& \text { center (2,0) } \\
& \text { verticas ( } 2, \pm \sqrt{30} \text { ) } \\
& h=2 \\
& k=0 \\
& a=\sqrt{3 b} \\
& b=\sqrt{6} \\
& c=6 \\
& 6=c^{2}-30 \\
& 36=c^{2} \\
& \text { asymptotes } \\
& y= \pm \sqrt{30}(x-2) \\
& y= \pm \sqrt{5}(x-2)
\end{aligned}
$$

