$$
\begin{aligned}
& \text { 21. } 16 y^{2}-\underline{25} x^{2}-\underline{96 y}+\underline{100} x-356=0 \\
& 16\left(y^{2}-6 y+9\right)-25\left(x^{2}-4 x+4\right)=356+16(9)-25(4) \\
& \frac{16(y-3)^{2}}{400}-\frac{25(x-2)^{2}}{400}=\frac{400}{100} \\
& \frac{(y-3)^{2}}{25}-\frac{(x-2)^{2}}{16}=1 \\
& h=2 \\
& k=3 \\
& a=5 \\
& b=4 \\
& c=\sqrt{41} \\
& 16=c^{2}-25 \\
& 41=c^{2} \\
& \text { center }(2,3) \\
& \text { vertices }(2,8)(2,-2) \\
& \text { foci }(2,3 \pm \sqrt{4}) \\
& \text { asymptutes } \\
& y-3= \pm \frac{5}{4}(x-2)
\end{aligned}
$$

34. The length of the conjugate axis is 8 units, and the vertices are at $(-3,9)$ and
