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$$
\begin{aligned}
& 4 \boldsymbol{x}^{2}+9 \boldsymbol{y}^{2}-40 x+36 y+100=\mathbf{0} . \\
& 4 x^{2}-40 x+9 y^{2}+36 y=-100 \\
& 4\left(x^{2}-10 x+\frac{25}{9}\right)+9\left(y^{2}+4 y+\frac{4}{7}=-100+4(25)+\frac{9(4)}{36}\right. \\
& \frac{4(x-5)^{2}}{36 a}+\frac{9(y+2)^{2}}{364}=\frac{36}{36} \\
& \frac{(x-5)^{2}}{9}+\frac{(y+2)^{2}}{4}=1
\end{aligned}
$$



