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1 Find the equation of the hyperbola with foci at $(7,1)$ and $(-3,1)$ whose transverse axis is 8 units long.

$$
\begin{aligned}
& h=2 \\
& k=1
\end{aligned}
$$

$\frac{(-3,1) \underbrace{(2,17}_{c=5} \cdot(7,1)}{(2)}$

$$
4=a \quad r=1
$$

$$
\frac{(x-2)^{2}}{16}-\frac{(y-1)^{2}}{9}=1
$$

$$
\begin{aligned}
& b^{2}=c^{2}-a^{2} \\
& b^{2}=25-16 \\
& b^{2}=9
\end{aligned}
$$

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