

39 $x^2 - y^2 = 9 \Rightarrow \frac{x^2}{9} - \frac{y^2}{9} = 1$. The transverse axis is horizontal with $a = 3$ and $b = 3$. The asymptotes are $y = \pm x$. See *Figure 39*. Since $c^2 = a^2 + b^2 \Rightarrow c = \pm \sqrt{9 + 9} = \sqrt{18}$, the foci are $(\pm \sqrt{18}, 0)$.

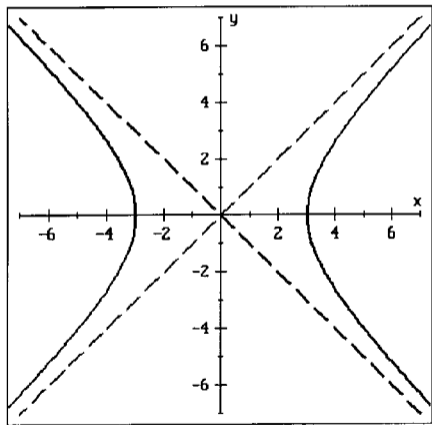


Figure 39