



A graph of a hyperbola centered at the origin. The hyperbola has two branches, one in the upper-left quadrant and one in the lower-right quadrant. Two straight lines, representing the asymptotes, pass through the origin. One asymptote is a vertical line, and the other is a diagonal line with a positive slope. The hyperbola branches approach these lines as they extend towards infinity.

$$x = -\frac{e}{d}$$

$$y = \frac{e}{d} + \frac{bd-ac}{d^2}$$