

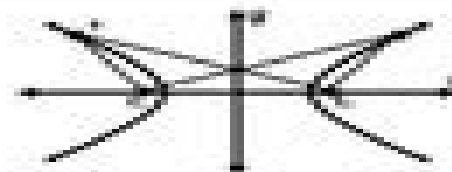
HYPERBOLAS

WHAT IS A HYPERBOLA?

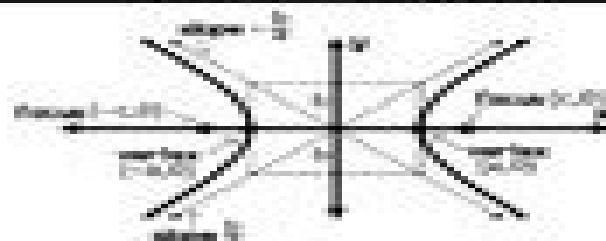
A **HYPERBOLA** is a set of all points P in a plane such that the absolute value of the difference between the distances from P to two fixed points F_1 and F_2 is a constant k .

$$|PF_1 - PF_2| = k, \text{ where } k < F_1F_2$$

Each fixed point F is a _____ of the hyperbola.



HORIZONTAL HYPERBOLA



Equation:

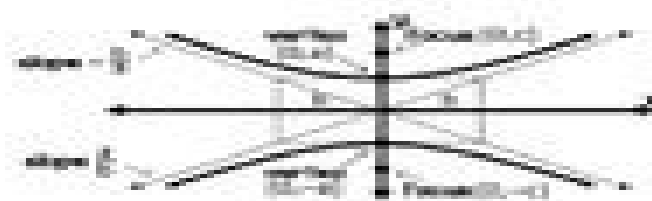
Transverse Axis: horizontal

Vertices: $(\pm a, 0)$

Foci: $(\pm c, 0)$, where $c^2 = a^2 + b^2$

Asymptotes: $y = \pm \frac{b}{a}x$

VERTICAL HYPERBOLA



Equation:

Transverse Axis: vertical

Vertices: $(0, \pm a)$

Foci: $(0, \pm c)$, where $c^2 = a^2 + b^2$

Asymptotes: $y = \pm \frac{a}{b}x$

WRITING AN EQUATION OF A HYPERBOLA

GUIDED EXAMPLE 1: Write an equation of a hyperbola where $a = 3$ and $b = 4$. Let the transverse axis be horizontal.

GUIDED EXAMPLE 2: Write an equation of a hyperbola where $a = 5$ and $c = 13$. Let the transverse axis be horizontal.

GUIDED EXAMPLE 3: Write an equation of a hyperbola where $b = 7$ and $c = 10$. Let the transverse axis be horizontal.

GUIDED EXAMPLE 4: Write an equation of a hyperbola with foci $(\pm 5, 0)$ and vertices $(\pm 3, 0)$. Let the transverse axis be horizontal.

Hyperbolas Algebra 2 Let

M Woodhall



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, *Algebra 2* Margaret L. Lial, John Hornsby, Terry McGinnis, 2005-08 *Prentice Hall Algebra 2 with Trigonometry*
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