

Notes: Conics - Hyperbola

Objective:

Derive the equations of ellipses and hyperbolas given the foci, using the fact that the sum or difference of distances from the foci is constant.

Definition: If you measure the distance from any point on a hyperbola to two fixed points (the foci), the difference of these distances is constant.

General Form of a Hyperbola:

$$Ax^2 + By^2 + Cx + Dy + E = 0, \text{ where } A \text{ and } B \text{ have opposite signs}$$

Standard Form of a Hyperbola:

$$\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1 \text{ or } \frac{(y-k)^2}{b^2} - \frac{(x-h)^2}{a^2} = 1$$

Hint:

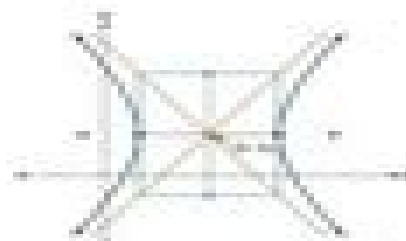
- The center is still (h, k) , but pay attention to the order!
- a^2 is always first
- Pay attention to whether x or y is first – this tells which way it opens
- The vertices and foci lie on the transverse axis and the co-vertices lie on the conjugate axis
- The asymptotes that form the shape of the hyperbola pass through the center

Foci: points that lie c units from the center of the hyperbola along the transverse axis, where $c^2 = a^2 + b^2$.

Horizontal Hyperbola

(x comes first)

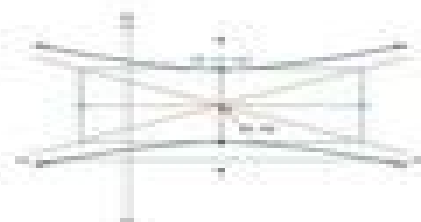
$$\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$$



Vertical Hyperbola

(y comes first)

$$\frac{(y-k)^2}{b^2} - \frac{(x-h)^2}{a^2} = 1$$



Hyperbola Application Answer Key

L Manion

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Hyperbola Application Answer Key:

Eventually, you will extremely discover a additional experience and ability by spending more cash. nevertheless when? realize you consent that you require to get those every needs with having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will lead you to comprehend even more roughly speaking the globe, experience, some places, later history, amusement, and a lot more?

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