

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:

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

Note:

- 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)

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



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