

## 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)

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



# Hyperbola Test Question Key

**Mike Jess**



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