

## 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 Application Answer Key

**John Hunter**



**Hyperbola Application Answer Key:**

## Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Hyperbola Application Answer Key**

In a global inundated with monitors and the cacophony of instantaneous conversation, the profound power and emotional resonance of verbal artistry usually fade in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, set within the musical pages of **Hyperbola Application Answer Key**, a captivating perform of fictional beauty that impulses with organic emotions, lies an unique trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that interesting opus instructions viewers on a psychological odyssey, lightly exposing the latent possible and profound impact stuck within the delicate web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is key themes, dissect their fascinating writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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