

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 Magic of Words: A Review of "**Hyperbola Application Answer Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Hyperbola Application Answer Key**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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