

Write a short definition of each term and label each on the picture.

Center of the Hyperbola: points in the middle

Transverse Axis: connects two vertices → comes first

Conjugate Axis: perpendicular to the transverse axis → comes second

Slope of the Asymptotes: slope of the diagonals

Vertex: vertices of the "squares"

Foci: foci of the ellipse...

In the general equation of an ellipse  $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$

What is the center?  $(h, k)$

What variable is the subject of the equation in the denominator? by which variable the first

What does the first denominator equal? 25 What does the second denominator equal? 16

In the equation  $x^2 - y^2 = 25$ , what does the "25" equal? distance from the center to the square

Draw the equation of the hyperbola. Add the following information.

$$1. \frac{x^2}{9} - \frac{y^2}{16} = 1$$

$$a^2=9 \quad b^2=16$$

$$a=3 \quad b=4$$

Center:  $(0, 0)$

Transverse axis:  $2a$

Conjugate axis:  $2b$

Slope of asymptotes:  $\pm \frac{b}{a}$

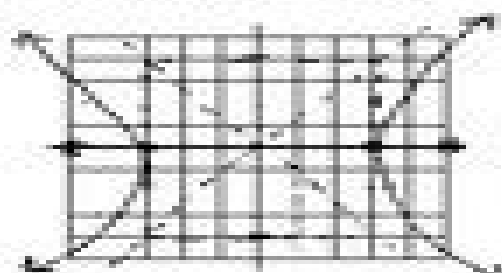
Vertex:  $(\pm 3, 0)$

Foci:  $(\pm 5, 0)$

$$c^2 = a^2 + b^2$$

$$c^2 = 9 + 16$$

$$c = 5$$



$$2. \frac{x^2}{4} - \frac{y^2}{25} = 1$$

$$a^2=4 \quad b^2=25$$

$$a=2 \quad b=5$$

Center:  $(0, 0)$

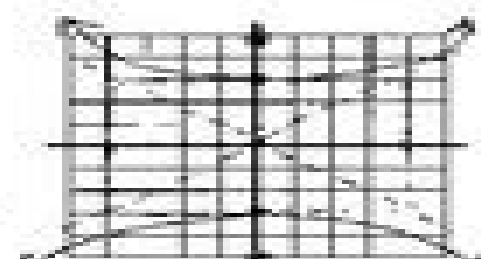
Transverse axis:  $2a$

Conjugate axis:  $2b$

Slope of asymptotes:  $\pm \frac{b}{a}$

Vertex:  $(\pm 2, 0)$

Foci:  $(\pm 5, 0)$



$$3. \frac{(x-1)^2}{9} - \frac{(y+2)^2}{16} = 1$$

$$a^2=9 \quad b^2=16$$

$$a=3 \quad b=4$$

Center:  $(1, -2)$

Transverse axis:  $2a$

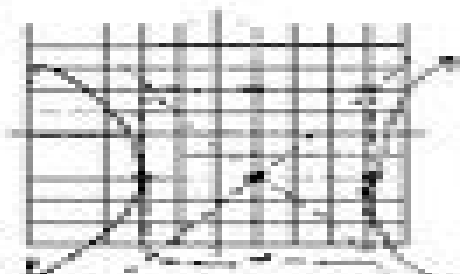
Conjugate axis:  $2b$

Slope of asymptotes:  $\pm \frac{b}{a}$

Vertex:  $(1 \pm 3, -2) = (-2, -2)$

Foci:  $(1 \pm 5, -2)$

Foci:  $(6, -2)$  and  $(-4, -2)$



$$c^2 = a^2 + b^2$$

$$c^2 = 9 + 16$$

$$c = 5$$

$$4. \frac{(x+2)^2}{4} - \frac{(y-4)^2}{9} = 1$$

Center:  $(-2, 4)$

Transverse axis:  $2a$

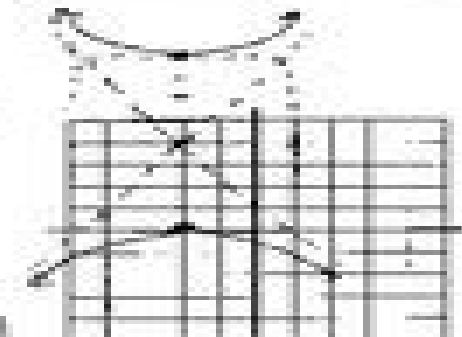
Conjugate axis:  $2b$

Slope of asymptotes:  $\pm \frac{b}{a}$

Vertex:  $(-2 \pm 2, 4) = (-4, 4)$

Foci:  $(-2 \pm 5, 4)$

Foci:  $(3, 4)$  and  $(-7, 4)$



$$c^2 = a^2 + b^2$$

$$c = 3$$

# Hyperbola Application Answer Key

**Lei Huang**

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:**

## **Hyperbola Application Answer Key** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Hyperbola Application Answer Key**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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### **Table of Contents Hyperbola Application Answer Key**

1. Understanding the eBook Hyperbola Application Answer Key
  - The Rise of Digital Reading Hyperbola Application Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Hyperbola Application Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Hyperbola Application Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hyperbola Application Answer Key
  - Personalized Recommendations
  - Hyperbola Application Answer Key User Reviews and Ratings
  - Hyperbola Application Answer Key and Bestseller Lists
5. Accessing Hyperbola Application Answer Key Free and Paid eBooks

- Hyperbola Application Answer Key Public Domain eBooks
  - Hyperbola Application Answer Key eBook Subscription Services
  - Hyperbola Application Answer Key Budget-Friendly Options
6. Navigating Hyperbola Application Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Hyperbola Application Answer Key Compatibility with Devices
    - Hyperbola Application Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Hyperbola Application Answer Key
    - Highlighting and Note-Taking Hyperbola Application Answer Key
    - Interactive Elements Hyperbola Application Answer Key
  8. Staying Engaged with Hyperbola Application Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Hyperbola Application Answer Key
  9. Balancing eBooks and Physical Books Hyperbola Application Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Hyperbola Application Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Hyperbola Application Answer Key
    - Setting Reading Goals Hyperbola Application Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Hyperbola Application Answer Key
    - Fact-Checking eBook Content of Hyperbola Application Answer Key
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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