

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"

Two foci of the hyperbola: \_\_\_\_\_

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 side or first? by which variable the first

What length is the transverse axis?  $2a$  What length is the conjugate axis?  $2b$

In the equation  $x^2 - y^2 = 1$ , what does the "1" represent? 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:  $x$

Conjugate axis:  $y$

Slope of asymptotes:  $\pm \frac{4}{3}$

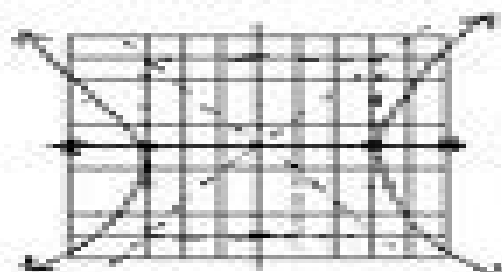
Vertex:  $(\pm 3, 0)$

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:  $(0,0)$

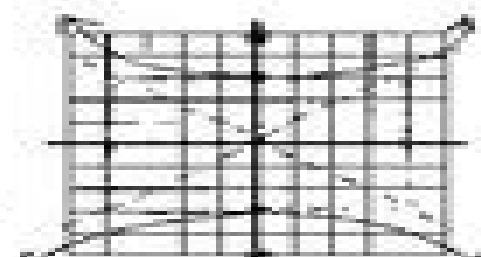
Transverse axis:  $x$

Conjugate axis:  $y$

Slope of asymptotes:  $\pm \frac{5}{2}$

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:  $x$

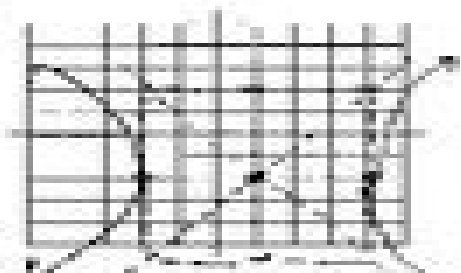
Conjugate axis:  $y$

Slope of asymptotes:  $\pm \frac{4}{3}$

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

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

$(6, -2)$  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:  $x$

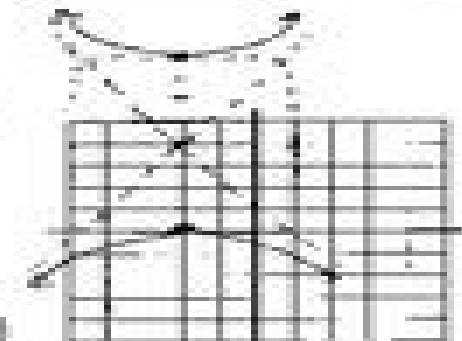
Conjugate axis:  $y$

Slope of asymptotes:  $\pm \frac{3}{2}$

Vertex:  $(-2 \pm 2, 4) = (0, 4)$

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

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



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

$$c = 5$$

# Graphing Hyperbolas Answer Key

**Yan Bai**

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.

## Graphing Hyperbolas Answer Key:

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**College Algebra with Graphing and Problem Solving** Karl J. Smith,1996 *New York Math: Math B* ,2000

*College Algebra* Richard N. Aufmann,Vernon C. Barker,Richard Nation,1997 [The 1984 Educational Software Preview Guide](#) ,1984 **College Trigonometry** Richard N. Aufmann,Vernon C. Barker,Richard Nation,2001-07-18 The Fourth

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