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| How to sketch a hyperbola?

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**Sections** ~~Find the Vertices,~~

~~Foci, Asymptotes and Graph~~

~~the Hyperbola~~ Find the

Vertices, foci and



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Asymptotes then Graph the

Hyperbola away from the

origin Hyperbola | Word

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standard equation of a

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*Hyperbola 1* How to draw a hyperbola with a compass

~~Algebra Ch 40: Hyperbolas (1 of 10) What is a Hyperbola?~~

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Hyperbolas - Conic Sections

~~Application of Hyperbola~~

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Form~~

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Circles, Parabolas,  
Ellipses, and Hyperbolas |  
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$$3(x-1)^2 - (y+1)^2 = 1 \quad 3 \left( x \right.$$

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$$? 1) 2 ? ( y + 1) 2 2 = 1$$

Solution. For problems 4 & 5 complete the square on the x and y y portions of the equation and write the equation into the standard form of the equation of the hyperbola.  $4x^2 - 32x - y^2$

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$4y + 24 = 0$   $4x^2 - 32x + y^2 - 4y + 24 = 0$  Solution.

~~Algebra — Hyperbolas~~

~~(Practice Problems)~~

sample 10 : Equation of Hyperbola. College algebra problems on the equations of

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hyperbolas are presented. Detailed solutions are at the bottom of the page.

Problem 1 Find the transverse axis, the center, the foci and the vertices of the hyperbola whose equation is  $x^2 / 4 - y^2 / 9 = 1$

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Problem 2 Find the transverse axis, the center, the foci and the vertices of the hyperbola whose equation is  $16y^2 - x^2 = 16$  Problem 3

~~College Algebra Problems~~



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~~With Answers sample 10 ...~~

The transverse axis of a hyperbola is 12 and the curve passes through the point  $P = (8, 14)$ . Find its equation. Exercise 5.

Calculate the equation of the hyperbola centered at

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$(0, 0)$  whose focal length is 34 and the distance from one focus to the closest vertex is 2. Exercise 6

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The graph of a hyperbola has

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two disconnected branches. The line through the two foci intersects the hyperbola at its two vertices. The line segment connecting the vertices is the transverse axis, and the midpoint of the transverse

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axis is the center of the hyperbola. See Figure 10.30.

## ~~10.4 Hyperbolas~~

First, we find

$$[latex]{a}^{2}[/latex].$$

Recall that the length of the transverse axis of a

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hyperbola is

$2a$ . This length is represented by the distance where the sides are closest, which is given as  $\text{ }65.3\text{ }$  meters. So,  $2a=60$ .

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Therefore,

$a=30$  and

$\{a\}^{\{2\}}=900$ .

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$$x^2 / 16 - y^2 / 9 = 1. \quad x^2$$

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$\frac{x^2}{4^2} - \frac{y^2}{3^2} = 1$ . We now compare the equation obtained with the standard equation (left) in the review above and we can say that the given equation is that of an hyperbola with  $a = 4$  and  $b = 3$ . Set  $y = 0$  in

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the equation obtained and find the x intercepts.  $x^2 / 4 - y^2 = 1$ . Solve for x.

~~Equation of Hyperbola  
Graphing Problems~~

Question: 10.2 The  
Hyperbola: Problem 10



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Previous Problem Problem  
List Next Problem (1 Point)  
A Hyperbola Has Vertical  
Transverse Axis Of Length 12  
And Asymptotes Of  $Y = X + 3$   
And  $Y = -X + 8$ . Find The Center  
Of The Hyperbola, Its Focal  
Length, And Its

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Eccentricity. The Center Of The Hyperbola Is  $(-9, 9)$  The Focal Length Is The Eccentricity Is

~~10.2 The Hyperbola: Problem~~

~~10 Previous Problem Pr ...~~

10.2 The Hyperbola: Problem

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13 Previous Problem Problem  
List Next Problem (1 point)  
Given the hyperbola with the  
equation  $9y^2 + 72y - 4x^2 -$   
 $24x + 72 = 0$ , find the  
vertices, the foci, and the  
equations of the asymptotes.  
1. Find the vertices. List

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your answers as points in the form  $(a,b)$ . Answer (separate by commas) 2. Find the foci.

~~10.2 The Hyperbola: Problem~~

~~13 Previous Problem Pr ...~~

Hyperbola Word Problem.

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Explanation/(answer) I've got two LORAN stations A and B that are 500 miles apart. A and B are also the Foci of a hyperbola. A ship at point P (which lies on the hyperbola branch with A as the focus) receives a nav

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signal from station A 2640  
micro-sec before it receives  
from B. If the signal  
travels 980 ft/microsecond  
...

~~Hyperbola Word Problem.~~  
~~Explanation/(answer) |~~

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~~Wyzant Ask ...~~

Here's one where you have to Complete the Square to be able to graph the hyperbola:  
Problem: Identify the center, vertices, foci, and equations of the asymptotes for the following hyperbola;

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then graph:  $(49\{y\}^{\{2\}}-25\{x\}^{\{2\}}+98y-100x+1174=0)$ .

Solution:

~~Conics: Circles, Parabolas,  
Ellipses, and Hyperbolas  
She ...~~

Use the information provided



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to write the standard form equation of each hyperbola.

9) Vertices:  $( \quad , \quad )$  ,  $( \quad , \quad )$

Endpoints of Conjugate Axis:

$( \quad , \quad )$

~~Hyperbolas Date Period~~

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Word Problems Involving Parabola and Hyperbola. WORD PROBLEMS INVOLVING PARABOLA AND HYPERBOLA. Problem 1 : An engineer designs a satellite dish with a parabolic cross section. The dish is 5 m wide at the

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opening, and the focus is placed  $1.2$  m from the vertex ... Word problems on sum of the angles of a triangle is  $180$  degree.

~~Word Problems Involving  
Parabola and Hyperbola~~

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Answer the situational problem involving ellipse and hyperbola A road passes through a tunnel in the form of a semi-ellipse. In order to widen the road to accomodate more traffic, engineers must

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design a larger tunnel that is twice as wide and 1.5 times as tall...

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cross section of a nuclear cooling tower is a hyperbola with equation:  $x^2 / 90^2 - y^2 / 130^2 = 1$  - The tower is 450 feet tall. - The distance from the top of the tower to the center...

Hyperbola word problem? |

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Yahoo Answers Solution (6)  
Cross section of a Nuclear cooling tower is in the shape of a

~~Hyperbola Word Problems With Solutions~~

The hyperbola can be

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constructed by connecting the free end of a rigid bar, where is a focus, and the other focus with a string. As the bar is rotated about and is kept taut against the bar (i.e., lies on the bar), the locus of is one branch



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of a hyperbola (left figure above; Wells 1991). A theorem of Apollonius states that for a line segment tangent to the hyperbola at a point and ...

~~Hyperbola : Definition &~~

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~~Problems With Answers~~

Graphing and Properties of Hyperbolas Date\_\_\_\_\_

Period\_\_\_\_\_ Identify the vertices, foci, and direction of opening of

each. 1)  $x^2 - 81 - y^2 - 4 = 1$  2)  $x^2 - 121 - y^2 - 81 = 1$  3)  $y^2 - 25$

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?  $x^2 - 16 = 1$  4)  $x^2 - 121 = y^2$   
36 = 1 5)  $(x + 2)^2 - 169 = (y$   
 $+ 8)^2 - 4 = 1$  6)  $(y + 8)^2 - 36 =$   
 $(x + 2)^2 - 25 = 1$  -1-

~~Graphing and Properties of  
Hyperbolas~~

Solution for Solve the

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Hyperbola problem using  
GRESA. GIVEN: REQUIRED:  
EQUATION: SOLUTION: ANSWER:  
Two radio stations are  
located 150 miles apart,  
where...

~~Answered: Solve the~~

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~~Hyperbola problem using... | bartleby~~

Problem: A cross section of a nuclear cooling tower is a hyperbola with equation:  $x^2 / 90^2 - y^2 / 130^2 = 1$  -  
The tower is 450 feet tall.  
- The distance from the top

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of the tower to the  
center...

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Solve applied problems  
involving hyperbolas.

Section Figure 9.13 Casting

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hyperbolic shadows

Definition of a Hyperbola A hyperbola is the set of points in a plane the difference of whose distances from two fixed points, called foci, is constant. Vertex Vertex  $x$   $y$

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Transverse axis Focus Center  
Focus

1. Sets, 2. Relations and  
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reasonable collection of problems on hyperbolas represented by binary quadratic Diophantine equations. From the integer solutions of each of the above equations, the relations among special

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polygonal numbers are obtained. The formal prerequisites for the material are minimal. It is hoped that these problems may create an interest in the hearts of researchers and lovers of mathematics

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who approach it with pure love for its beauty. There is no wonder that binary quadratic Diophantine equations in connection with polygonal numbers are beautiful and tricky enough to keep a mathematician

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