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Problem. Explana  
tion/(answer)*

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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  
signal from

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station A 2640  
micro-sec before  
it receives from  
B. ... Now the  
answers to the  
questions:

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Problem. Explana  
tion/(answer) |  
Wyzant Ask ...  
Conic Sections,  
Hyperbola : Word  
Problem ,



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*Finding an  
Equation. In  
this example we  
have to find the  
equation that  
represents the  
hyperbolic path  
on which a ship  
is traveling.*

*Lecture 17:  
Hyperbola: Word  
Problem ,  
Finding an*

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*Equation ...*

*Section 10.4*

*Hyperbolas 753*

*Introduction The third type of conic is called a hyperbola. The definition of a hyperbola is similar to that of an ellipse. The difference is that for an ellipse the sum*

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*of the distances  
between the foci  
and a point on  
the ellipse is  
fixed, whereas  
for a*

#### **10.4 Hyperbolas**

**Example 6:**

**Solving Applied  
Problems**

**Involving**

**Hyperbolas. The  
design layout of**

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a cooling tower is shown in Figure 11. The tower stands 179.6 meters tall. The diameter of the top is 72 meters. At their closest, the sides of the tower are 60 meters apart.

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*Solving Applied  
Problems*

*Involving  
Hyperbolas /  
College ...*

*Here is a set of  
practice  
problems to  
accompany the  
Hyperbolas  
section of the  
Common Graphs  
chapter of the  
notes for Paul*

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*Dawkins Algebra  
course at Lamar  
University.*

*Algebra -  
Hyperbolas  
(Practice  
Problems)  
Solution of  
exercise 8.  
Determine the  
equation of the  
hyperbola  
centered at  $(0,$*

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0) knowing that one focus is 2 units from one vertex and 50 from the other.

Solution of exercise 9.

Determine the coordinates of the point(s) of intersection between the line  $x + y - 1 = 0$  and the

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*hyperbola  $x^2 - 2y^2 = 1$ . Solution  
of exercise 10*

*Hyperbola  
Problems |  
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The Hyperbola -  
Tutorial,  
Problems,  
Solutions, MCQ  
Quiz/Worksheet -  
Introducing the  
Equation,*



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*Eccentricity,  
Axis, Chords,  
Tangents,  
Normals. Target  
Audience: High  
School Students,  
College Freshmen  
and Sophomores,  
Class 11/12  
Students in  
India preparing  
for ISC/CBSE and  
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Quiz ...*

*This section  
covers: Tables  
of Conics  
Circles  
Applications of  
Circles*

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*Parabolas*

*Applications of*

*Parabolas*

*Ellipses*

*Applications of*

*Ellipses*

*Hyperbolas*

*Applications of*

*Hyperbolas*

*Identifying the*

*Conic More*

*Practice Conics*

*(circles,*

*ellipses,*

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parabolas, and  
hyperbolas)

*involves a set  
of curves that  
are formed by  
intersecting a  
plane and a  
double-napped  
right cone  
(probably too  
much  
information!).*

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Solutions,  
*Parabolas,  
Ellipses, and  
Hyperbolas - She*

...

*sample 10 :*

*Equation of  
Hyperbola.*

*College algebra  
problems on the  
equations of  
hyperbolas are  
presented.*

*Detailed  
solutions are at*

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Solutions.

*the bottom of  
the page.*  
*Problem 1 Find  
the transverse  
axis, the  
center, the foci  
and the vertices  
of the hyperbola  
whose equation  
is*

*College Algebra  
Problems With  
Answers - sample*

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10 ...  
Solutions

*Solve applied  
problems  
involving  
hyperbolas.*

*Section Figure  
9.13 Casting  
hyperbolic  
shadows*

*Definition of a  
Hyperbola A  
hyperbola is the  
set of points in  
a plane the*

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Solutions

*difference of  
whose distances  
from two fixed  
points, called  
foci, is  
constant. Vertex  
Vertex  $x$   $y$   
Transverse axis  
Focus Center  
Focus Figure  
9.14 The two  
branches of a  
hyperbola ...*



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...

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hyperbola, find  
the vertices,  
the foci, and  
the equations of  
the asymptotes,  
and write its

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equation. •

write the

*Practice*

*Problems.*

*Answers to odd-  
numbered*

*problems can be  
found at the end  
of your text.*

*Section*

*Exercises. If*

*you would like  
help correlating*

*Making Practice*

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Solutions,  
*Fun to Word*

*Problems,  
Formulas. 31 -  
36. Draw a  
straight line  
segment ...*

*Hyperbola  
Practice  
Problems And  
Answers  
how to solve?  
Hyperbola: since  
world war 2,*

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*ships have used the LORAN system as a means of navigation. Two stations, located great distances apart, simultaneously transmit radio pulses to ships at sea. Since a ship is usually closer to one station than the*

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*other, the ship  
receives these  
pulses at  
slightly  
different times.*

*hyperbola word  
problem : cheata  
tmathhomework  
Problems with  
detailed  
solutions on  
equation of  
hyperbola. Free*

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**Equation of**

**Hyperbola -**

**Graphing**

**Problems.**

**Problems with**

**detailed**

**solutions on the**

**hyperbola**

**equation are**

**presented in**

**this tutorial.**

**Review. A**

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*hyperbola with  
center at the  
origin  $(0,0)$ , is  
the graph of*

*Equation of  
Hyperbola-  
Graphing  
Problems*

*Problems 11.2  
Solutions 1.*

*Find the  
equation of the  
parabola whose*

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Problems With  
Solutions

vertex is at  
(0, 2) and focus  
is the origin.  
Solution. Since  
both focus and  
vertex lie on  
the line  $x = 0$ ,  
and the vertex  
is above the  
focus, ...

Solution. If the  
hyperbola has a  
horizontal axis,  
we have  $b/a =$



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Solutions

$0.8$  and  $e = c/a$ ,  
with  $c^2 = a^2$   
 $+b^2$ .

*Problems 11.2*

*Solutions*

*Solution x -*

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*Conic Sections,*

*Hyperbola : Word*

*Problem ,*

*Finding an*

*Equation. In*

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*this example we  
have to find the  
equation that  
represents the  
hyperbolic path  
on which a ship  
is traveling.*

*Category*

*Conic Sections,  
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Finding an  
Equation*

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Chapter 10

Quadratic

Relations and

Conic Sections

Graphing an

Equation of a

Hyperbola Draw

the hyperbola

given by

$$4x^2 - 9y^2 = 36.$$

**SOLUTION** First

rewrite the

equation in

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Solutions

*standard form.*

*$4x^2 - 9y^2 = 36$  Write  
original  
equation.  $\frac{4}{6} \frac{3}{2} x$   
 $2 - 2$*

*10 -*

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*This video shows  
how to solve  
applied problems  
that depend on  
hyperbolas. ...*

*Applied problems*

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*using hyperbolas*  
*... Find the*  
*Vertices, Foci,*  
*Asymptotes and*  
*Graph the*  
*Hyperbola -*  
*Duration: 7:03*  
*...*

*Applied problems*  
*using hyperbolas*  
*Hyperbola Word*  
*Problem. Long*  
*distance radio*

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*navigation for  
aircraft and  
ships uses  
synchronized  
pulses  
transmitted by  
widely separated  
transmitting  
stations. These  
... find the  
asymptotes of  
the hyperbola  
 $x^2 - 4y^2 = 4$ .*

**Answers . 1.**

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*Write the  
hyperbola in  
standard form  
with the  
vertices at  
(1, 1) and (5, 1)  
and the foci at  
(-1, 1) and (7, 1)*

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