

SOLVING PROBLEM INVOLVING HYPERBOLA

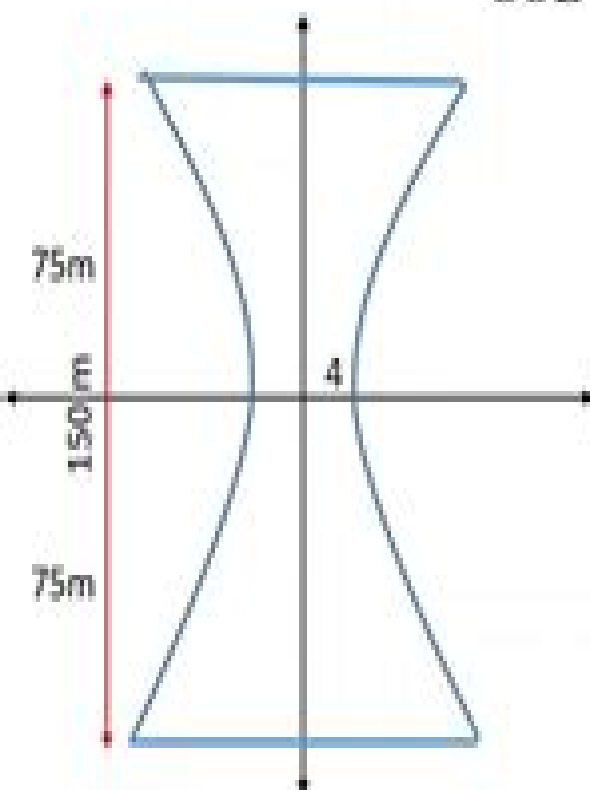


Natural draft cooling towers are shaped like hyperbola for more efficient cooling of power plants. The hyperbola in the tower can be modeled by $\frac{x^2}{16} - \frac{y^2}{225} = 1$ with 150 m as its height. Find the width of the tower at the top and its narrowest part in the middle.

SOLUTION: $\frac{x^2}{16} - \frac{y^2}{225} = 1$

$$\begin{aligned} a^2 &= 16 & a &= 4 \\ b^2 &= 225 & b &= 15 \end{aligned}$$

The narrowest part of the cooling tower is $2a$. So, it measures 8 meters.



Hyperbola Application Problems

D Siedentop



Hyperbola Application Problems:

A Collection of Problems on Hyperbolas and Special Polygonal Numbers Dr.M.A.Gopalan, Dr.K.Meena ,Dr.S.Vidhyalakshmi,2018-01-01 This book contains a 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 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 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 occupied for entire life *Problems, Theorems and Examples in Descriptive Geometry ...* Samuel Edward Warren,1883 A Gateway to Number Theory: Applying the Power of Algebraic Curves Keith Kendig,2021-04-23 Challenge Can you find all the integers a, b, c satisfying $2a^2 + 3b^2 + 5c^2$ Looks simple and there are in fact a number of easy solutions But most of them turn out to be anything but obvious There are infinitely many possibilities and as any computer will tell you each of a, b, c will usually be large So the challenge remains Find all integers a, b, c satisfying $2a^2 + 3b^2 + 5c^2$ A major advance in number theory means this book can give an easy answer to this and countless similar questions The idea behind the approach is transforming a degree two equation in integer variables a, b, c into a plane curve defined by a polynomial Working with the curve makes obtaining solutions far easier and the geometric solutions then get translated back into integers This method morphs hard problems into routine ones and typically requires no more than high school math The complete solution to $2a^2 + 3b^2 + 5c^2$ is included in the book In addition to equations of degree two the book addresses degree three equations a branch of number theory that is today something of a cottage industry and these problems translate into elliptic curves This important part of the book includes many pictures along with the exposition making the material meaningful and easy to grasp This book will fit nicely into an introductory course on number theory In addition the many solved examples illustrations and exercises make self studying the book an option for students thus becoming a natural candidate for a capstone course **100 Great Problems of Elementary Mathematics** Heinrich Dörrie,2013-04-09 Problems that beset Archimedes Newton Euler Cauchy Gauss Monge Steiner and other great mathematical minds Features squaring the circle π and similar problems No advanced math is required Includes 100 problems with proofs The Humongous Book of Algebra Problems W. Michael Kelley,2013-11-07 When the numbers just don't add up Following in the footsteps of the successful The Humongous Books of Calculus Problems bestselling author Michael Kelley has taken a typical algebra workbook and made notes in the margins adding missing steps and simplifying concepts and solutions Students will learn how to interpret and solve 1000 problems as they are typically presented in algebra courses and become prepared to solve those problems that were never discussed in class but always seem to find their way onto exams Annotations throughout the text clarify each problem and fill in missing steps needed to reach the solution making this book like no other

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to allow both practitioners and newcomers to the area of GPR to use it as a handbook and primary research reference Review of GPR theory and applications by leaders in the field Up to date information and references Effective handbook and primary research reference for both experienced practitioners and newcomers **College Algebra** Michael Sullivan,2002 This text is highly dependable having been fine tuned over many years Hallmarks are accuracy precision depth strong student support and abundant thorough varied exercise sets This title is fairly traditional and has optional graphing calculator coverage throughout Part of a four title series The Encyclopaedia Britannica, Or Dictionary of Arts, Sciences, and General Literature ,1842 Calculus of One Variable Stanley I. Grossman,2014-05-10 Calculus of One Variable Second Edition presents the essential topics in the study of the techniques and theorems of calculus The book provides a comprehensive introduction to calculus It contains examples exercises the history and development of calculus and various applications Some of the topics discussed in the text include the concept of limits one variable theory the derivatives of all six trigonometric functions exponential and logarithmic functions and infinite series This textbook is intended for use by college students **Calculus** Stanley I. Grossman,2014-05-10 Calculus Third Edition emphasizes the techniques and theorems of calculus including many applied examples and exercises in both drill and applied type problems This book discusses shifting the graphs of functions derivative as a rate of change derivative of a power function and theory of maxima and minima The area between two curves differential equations of exponential growth and decay inverse hyperbolic functions and integration of rational functions are also elaborated This text likewise covers the fluid pressure ellipse and translation of axes graphing in polar coordinates proof of l H pital s rule and approximation using Taylor polynomials Other topics include the rectangular coordinate system in space higher order partial derivatives line integrals in space and vibratory motion This publication is valuable to students taking calculus **College Algebra** Mustafa A. Munem,James P. Yizze,2007-06-21

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