

SOLVING PROBLEM INVOLVING HYPERBOLA

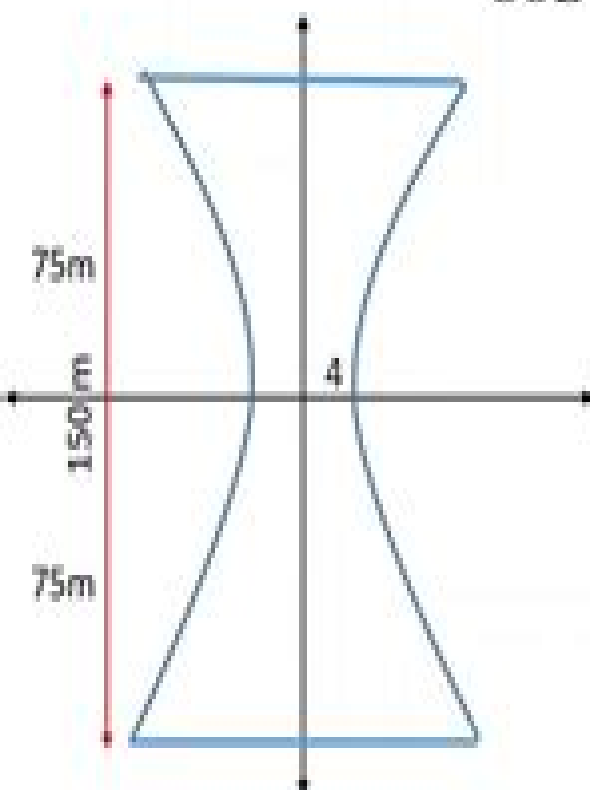


Natural draft cooling towers are shaped like hyperbola for more efficient cooling of power plants. The hyperbola in the tower can be modeled by $\frac{x^2}{16} - \frac{y^2}{225} = 1$ with 150 m as its height. Find the width of the tower at the top and its narrowest part in the middle.

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 Problems And Solutions

H Kauffman



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Problems and Solutions Mathematics Class XI by Dr. Ram Dev Sharma, Er. Meera Goyal Dr. Ram Dev Sharma, Er. Meera Goyal, 2020-06-27 1 Sets 2 Relations and Functions 3 Trigonometric Functions 4 Principle of Mathematical Induction 5 Complex Numbers and Quadratic Equations 6 Linear Inequalities 7 Permutations and Combinations 8 Binomial Theorem 9 Sequences and Series 10 Straight Lines 11 Conic Sections 12 Introduction to Three Dimensional Geometry 13 Limits and Derivatives 14 Mathematical Reasoning 15 Statistics 16 Probability **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 and Solutions Mathematics Class XI** Dr. Ram Dev Sharma, Er. Meera Goyal, 2021-12-15 1 Sets 2 Relations and Functions 3 Trigonometric Functions 4 Principle of Mathematical Induction 5 Complex Numbers and Quadratic Equations 6 Linear Inequalities 7 Permutations and Combinations 8 Binomial Theorem 9 Sequences and Series 10 Straight Lines 11 Conic Sections 12 Introduction to Three Dimensional Geometry 13 Limits and Derivatives 14 Mathematical Reasoning 15 Statistics 16 Probability **UP Board Problems and Solutions Mathematics Class 11** Dr. Ram Dev Sharma, Er. Meera Goyal, 2023-12-03 1 Sets 2 Relations and Functions 3 Trigonometric Functions 4 Principle of Mathematical Induction 5 Complex Numbers and Quadratic Equations 6 Linear Inequalities 7 Permutations and Combinations 8 Binomial Theorem 9 Sequences and Series 10 Straight Lines 11 Conic Sections 12 Introduction to Three Dimensional Geometry 13 Limits and Derivatives 14 Mathematical Reasoning 15 Statistics 16 Probability **Mathematical Questions and Solutions, from the "Educational Times."**, 1878 *Mathematical Questions and Solutions, from the "Educational Times"* W. J. C. Miller, 1876 *Mathematical Questions and Solutions, from "The Educational Times", with Many Papers and Solutions in Addition to Those Published in "The Educational Times" ...*, 1876 *Mathematical Questions and Solutions*, 1903 **Mathematical Questions with Their Solutions, from the "Educational Times"...** W. J. C. Miller, D. Biddle, 1873 *Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times"*, 1873 **Mathematical Questions with Their Solutions**, 1872 Proceedings of the Edinburgh Mathematical Society Edinburgh Mathematical Society, 1910 **An Introduction to the Ancient and Modern Geometry of Conics** Charles Taylor, 1881 Mathematical Papers William Kingdon Clifford, 1882 *Mathematical Recreations and Problems of Past and Present Times* Walter William Rouse Ball, 1892 The William Lowell Putnam Mathematical

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