

SOLVING PROBLEM INVOLVING HYPERBOLA



Natural draft cooling towers are shaped like hyperbolas 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 Sample Problems

Judd E. Hollander



Hyperbola Sample Problems:

Enjoying the Beat of Term: An Mental Symphony within **Hyperbola Sample Problems**

In a global used by monitors and the ceaseless chatter of instant interaction, the melodic elegance and mental symphony developed by the prepared term frequently disappear into the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. However, set within the pages of **Hyperbola Sample Problems** an enchanting fictional treasure overflowing with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that charming masterpiece conducts viewers on an emotional trip, skillfully unraveling the concealed melodies and profound impact resonating within each carefully constructed phrase. Within the depths of this touching assessment, we will explore the book is main harmonies, analyze its enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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