

Example 6: The design layout of a hyperbolic cooling tower is shown below. 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. Find the equation of the hyperbola that models the sides of the cooling tower. Assume that the center of the hyperbola is the origin of the coordinate plane. Round final values to 4 decimal places.

$$a = 30 \quad x^2 - y^2$$

$$\frac{x^2}{900} - \frac{y^2}{b^2} = 1$$

$$\frac{(36)^2}{900} - \frac{(79.6)^2}{b^2} = 1$$

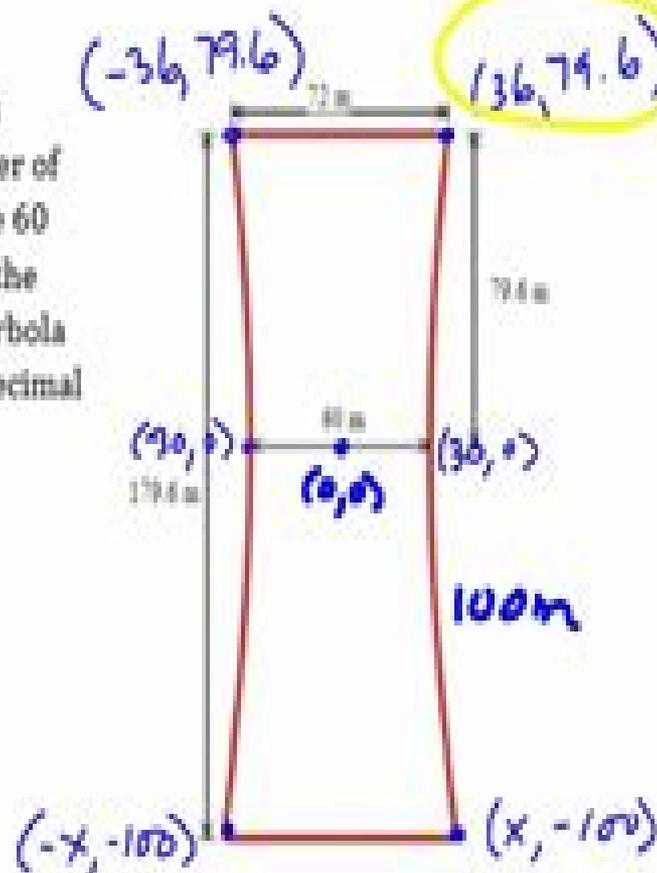


Figure 1.5.15

Hyperbola Application Problems With Answers

Lauren Gardner



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