

Modeling a functional building

The building will have a rectangular base 150m long and 72m wide, with the maximum height between 36m and 54m, and the roof structure modeled by parabola.

Step 1: create a model for the curved roof structure when the height is 36m.

When the maximum height of the building is 36m, by thinking as if the side of building is on axis and assuming that the origin is at the midpoint of the shorter side of the base, the model of parabolic roof structure has a vertex on the point (0, 36) and the endpoints on (-36,0) and (36,0).

Thus, the following equation can model the roof structure:

$$y = a(x - 0)^2 + 36$$

$$y = ax^2 + 36$$

By using the endpoints of the bases above as the parabola's x-intercepts,

$$0 = a(36)^2 + 36$$

Solving the equation above gives $a = -\frac{1}{36}$. Therefore, when the maximum height of the building is 36m, the roof structure can be modeled by the following equation:

$$y = -\frac{1}{36}x^2 + 36$$

Therefore, from the information above, the roof structure will resemble the following graph:

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Arturo Cuomo



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Table of Contents Example Ib Math Sl Hl Ia Exploration

1. Understanding the eBook Example Ib Math Sl Hl Ia Exploration
 - The Rise of Digital Reading Example Ib Math Sl Hl Ia Exploration
 - Advantages of eBooks Over Traditional Books
2. Identifying Example Ib Math Sl Hl Ia Exploration
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Example Ib Math Sl Hl Ia Exploration
 - User-Friendly Interface
4. Exploring eBook Recommendations from Example Ib Math Sl Hl Ia Exploration
 - Personalized Recommendations
 - Example Ib Math Sl Hl Ia Exploration User Reviews and Ratings
 - Example Ib Math Sl Hl Ia Exploration and Bestseller Lists

5. Accessing Example Ib Math Sl Hl Ia Exploration Free and Paid eBooks
 - Example Ib Math Sl Hl Ia Exploration Public Domain eBooks
 - Example Ib Math Sl Hl Ia Exploration eBook Subscription Services
 - Example Ib Math Sl Hl Ia Exploration Budget-Friendly Options
6. Navigating Example Ib Math Sl Hl Ia Exploration eBook Formats
 - ePub, PDF, MOBI, and More
 - Example Ib Math Sl Hl Ia Exploration Compatibility with Devices
 - Example Ib Math Sl Hl Ia Exploration Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Example Ib Math Sl Hl Ia Exploration
 - Highlighting and Note-Taking Example Ib Math Sl Hl Ia Exploration
 - Interactive Elements Example Ib Math Sl Hl Ia Exploration
8. Staying Engaged with Example Ib Math Sl Hl Ia Exploration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Example Ib Math Sl Hl Ia Exploration
9. Balancing eBooks and Physical Books Example Ib Math Sl Hl Ia Exploration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Example Ib Math Sl Hl Ia Exploration
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Example Ib Math Sl Hl Ia Exploration
 - Setting Reading Goals Example Ib Math Sl Hl Ia Exploration
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Example Ib Math Sl Hl Ia Exploration
 - Fact-Checking eBook Content of Example Ib Math Sl Hl Ia Exploration
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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