

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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