

Example 2: A swimming pool is to be enclosed in a backyard. The wall of the house will be one side of the rectangular enclosure, and the homeowners have 400 feet of wooden fencing for the other three sides. What dimensions will maximize the area of the enclosure?



$$x \in (0, 200)$$

$$A = xy = x(400 - 2x)$$

$$f(x) = 400x - 2x^2$$

$$f(x) = -2x^2 + 400x$$

$$f'(x) = -4x + 400$$

$$0 = -4x + 400$$

$$4x = 400 \Rightarrow x = 100 \text{ft}$$

$$f''(x) = -4 < 0$$

Max

$$2x + y = 400$$

$$y = 400 - 2x = 200 \text{ft}$$

$$y > 0$$

$$400 - 2x > 0$$

$$400 > 2x$$

$$200 > x$$

How To Do Optimization Problems

Jicheng Xie



How To Do Optimization Problems:

Whispering the Techniques of Language: An Mental Journey through **How To Do Optimization Problems**

In a digitally-driven world wherever monitors reign supreme and quick transmission drowns out the subtleties of language, the profound strategies and mental subtleties hidden within words often get unheard. Yet, nestled within the pages of **How To Do Optimization Problems** a captivating fictional prize pulsing with organic thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus invites readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the very material of each and every word. Within the psychological depths of the poignant review, we can embark upon a genuine exploration of the book is key styles, dissect their fascinating publishing type, and succumb to the effective resonance it evokes deep within the recesses of readers hearts.

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