

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

**Joacim Rocklöv**



## **How To Do Optimization Problems:**

## The Enigmatic Realm of **How To Do Optimization Problems**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **How To Do Optimization Problems** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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