

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

Kartikeya Dutta



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