

Optimization Problems Practice

Mirza +

Solve each optimization problem.

- 1) A company has started selling a new type of smartphone at the price of $\overbrace{\$110 - 0.05x}$ where x is the number of smartphones manufactured per day. The parts for each smartphone cost $\overbrace{\$50}$ and the labor and overhead for running the plant cost $\overbrace{\$6000}$ per day. How many smartphones should the company manufacture and sell per day to maximize profit? (Remember that Profit = Revenue - Cost)

$$P(x) = R(x) - C(x)$$

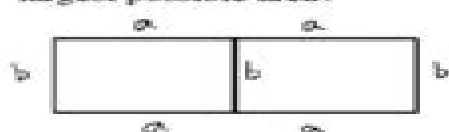
x = number of smartphones manufactured per day

$$C(x) = 50x + 6000$$

$$R(x) = (110 - 0.05x) \cdot x$$

$$P(x) = R(x) - C(x) = (110 - 0.05x) \cdot x - 50x + 6000 = 110x - 0.05x^2 - 50x + 6000 = -0.05x^2 - 60x + 6000$$

- 2) A rancher wants to construct two identical rectangular corrals using 200 ft of fencing. The rancher decides to build them adjacent to each other, so they share fencing on one side. What dimensions should the rancher use to construct each corral so that together, they will enclose the largest possible area?



$$200 = 4a + 2b$$

$$A = 2a \cdot b$$

- 3) A cryptography expert is deciphering a computer code. To do this, the expert needs to minimize the product of a positive rational number and a negative rational number, given that the positive number is exactly 8 greater than the negative number. What final product is the expert looking for?

$$x > 0$$

$$y = x + 8$$

$$P = x \cdot y = x(x + 8) = x^2 + 8x$$

$$y < 0$$

$$y = x - 8$$

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S Marginson



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