

Marginal Average Cost and Revenue

Learning Objectives

- Compute the average cost and revenue
- Compute and interpret marginal average cost

Computer the average cost and revenue

1. The cost to produce x products at a given company is given by C(x) = 23.41x + 1540, where cost is in dollars. Find the equation of the average cost $\bar{C}(x)$ for the same product.

2. The revenue from selling x tables is $R(x) = 700x - 0.005x^2$. Find the equation for the average revenue $\bar{R}(x)$ for the tables.



3.	Using the information from Problem (1) above, find the marginal average cost function
	and evaluate it at 50 units. Interpret the value you obtain.

Compute and interpret marginal average cost

ANSWER KEY

1.
$$\bar{C}(x) = 23.41 + \frac{1540}{x}$$

$$2.\,\bar{R}(x) = 700 - 0.005x$$

3. $\bar{C}'(x) = -\frac{1540}{x^2}$, $\bar{C}(50) = -0.616$, after producing 50 units, the average cost of the next unit will decrease by approximately \$0.62.