

(1) [7] Determine the marginal cost when $q = 50$ units if average cost is given by

$$\bar{c} = 0.01q + 5 + \frac{500}{q} \quad \$/\text{unit}$$

State units with your answer.

(2) [8] Determine marginal revenue if the demand equation relating price p (in dollars) to quantity q (in units produced) is

$$p = \frac{108}{q + 2} - 3$$

State units with your answer.