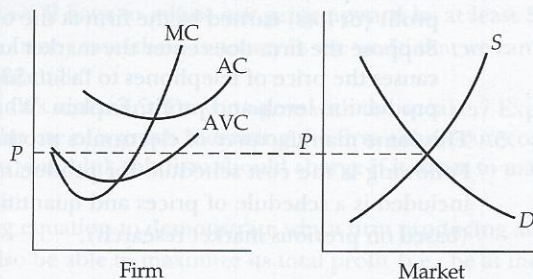


PROBLEMS

For certain questions, consult Appendix 8A.

- Following is the graphical representation of a short-run situation faced by a perfectly competitive firm. Is this a good market for this firm to be in? Explain. What do you expect will happen in the long run? Explain.



- Indicate whether each of the following statements is true or false and explain why.
 - A competitive firm that is incurring a loss should immediately cease operations.
 - A pure monopoly does not have to worry about suffering losses because it has the power to set its prices at any level it desires.
 - In the long run, firms operating in perfect competition and monopolistic competition will tend to earn normal profits.
 - Assuming a linear demand curve, a firm that wants to maximize its revenue will charge a lower price than a firm that wants to maximize its profits.
 - If $P > AVC$, a firm's total fixed cost will be greater than its loss.
 - When a firm is able to set its price, its price will always be less than its MR.
 - A monopoly will always earn economic profit because it is able to set any price that it wants to.
- Kelson Electronics, a manufacturer of VCRs, estimates the following relation between its marginal cost of production and monthly output:

$$MC = \$150 + 0.005Q$$

- What does this function imply about the effect of the law of diminishing returns on Kelson's short-run cost function?
- Calculate the marginal cost of production at 1,500, 2,000, and 3,500 units of output.
- Assume Kelson operates as a price taker in a competitive market. What is this firm's profit-maximizing level of output if the market price is \$175?
- Compute Kelson's short-run supply curve for its product.