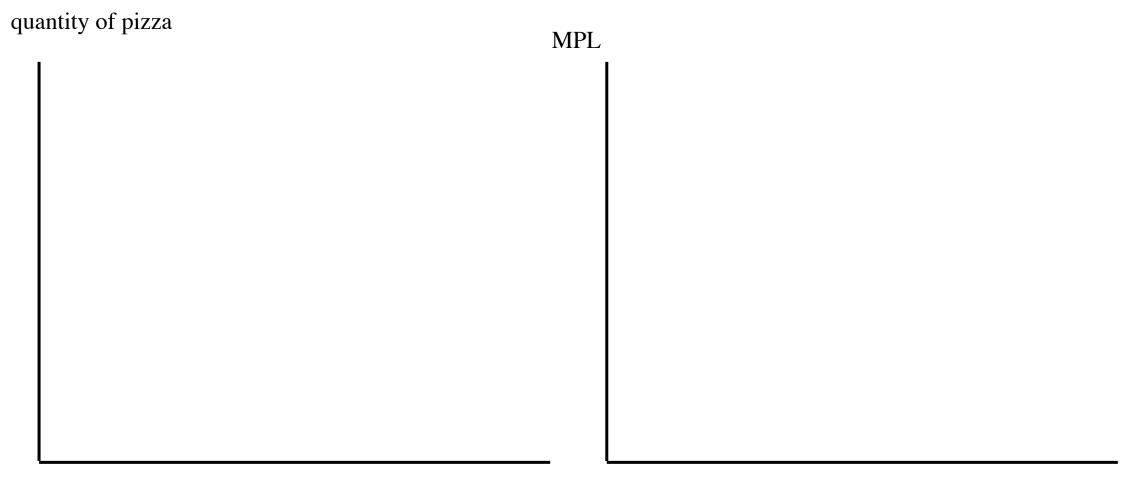
Behind the Supply Curve: Inputs and Costs

Learning Objectives

- How the firm's production function relates quantity of inputs to quantity of outputs
- Diminishing returns to inputs
- The types of costs and their graphs
- Why cost may differ in the short run versus the long run
- Technology and returns to scale

The Production Function

B. II. B. III. IV. В. B.



Labor

Costs and Cost Curves

I.

A.

B.

 \mathbf{C}

II.

Α.

B.

C.

D.

III.

A.

B.

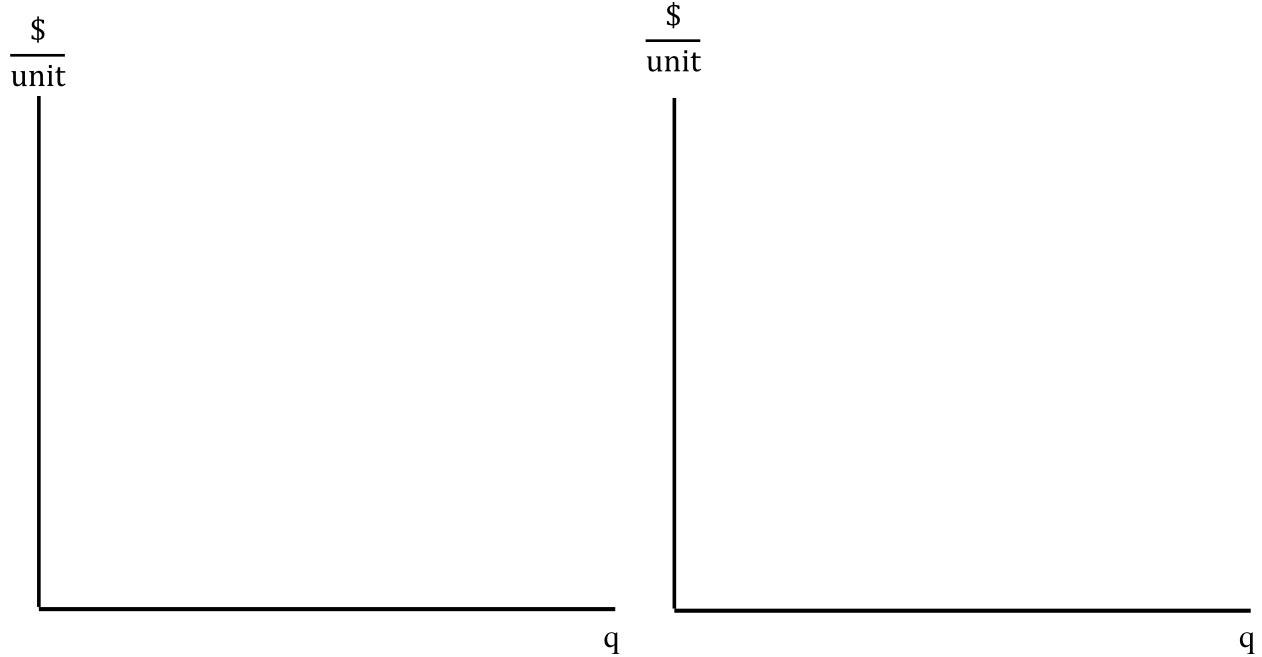
C

IV.

A

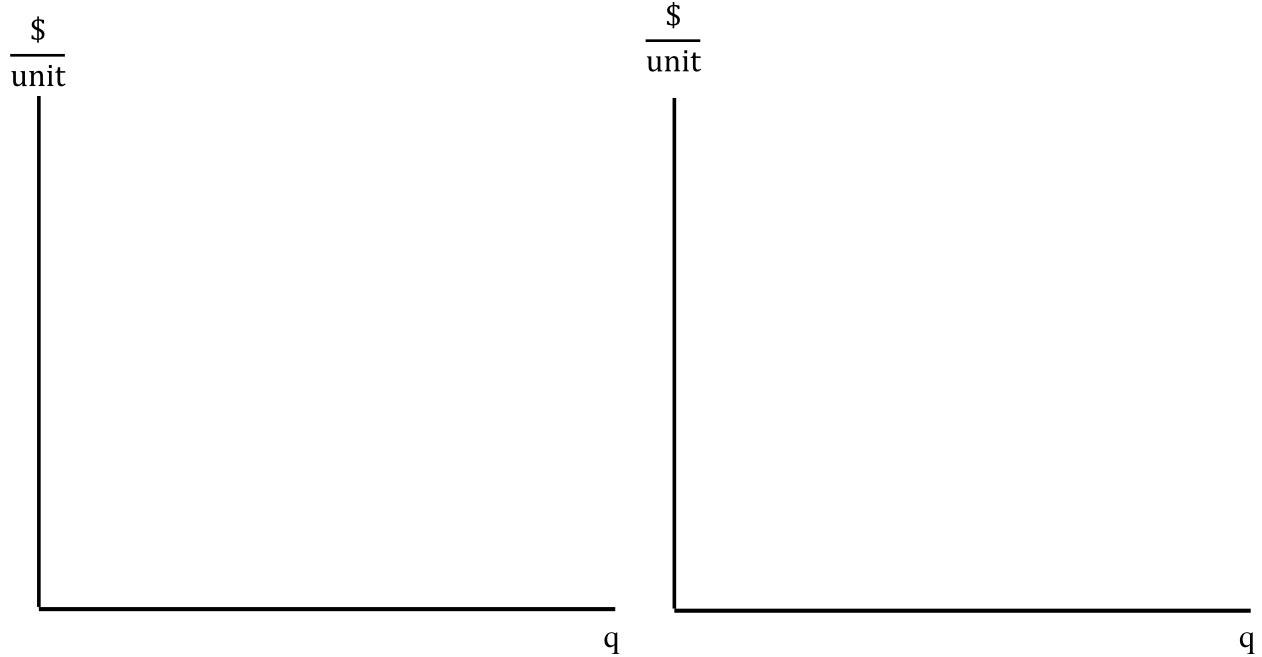
B.

C.



Short-Run versus Long-Run Costs

В. III. B.



 $\frac{\$}{unit}$

The Cost Table

Mom and Pop Pizza Production Function										
L	Pizza	FC	AFC $\frac{FC}{Q}$	VC	$AVC = \frac{VC}{Q}$	TC	$ATC = \frac{TC}{Q}$	$\mathbf{MC} = \frac{\Delta TC}{\Delta Q}$		
0	0									
1	5									
2	12									
3	18									
4	23									
5	27									
6	30									
7	32									
8	33									