§4-3 Cost, Revenue, & Profit Functions

Goals:

- Find out how competition works
- Find profit & loss from sales
 Use cost, revenue & profit functions

Competition

- Rivalry among sellers for consumers' dollars
- Rivalry among producers for the factors of competition
- Competition keeps producers from charging unreasonably high prices

Competition

- For competition to work:
- There should be a large # of buyers and sellers
- Buyers should be informed about the quality and price of products
- Buyers should have choices
- New products should have easy entry into the marketplace

Revenue

The money that a business receives from customers for its products and services

Profit

Is the difference between revenue and costs

Fixed Costs

Costs that remain the same each week for a business

Variable costs

 Costs that change according to how many items are produced, includes materials and packaging, etc.

Unit cost

Cost per item(unit)

Unit price

The price per item(unit)

Cost function C = un + fC = total costU=unit cost ▶ N=# of units F = fixed costs

Revenue Function

R=sn R=total revenue S = selling price per unit N = # of units sold

Profit Function

- ► P=r-c
- P = total profit
- R = revenue
- C = total cost

Example

What is the profit if you sell 32 wigets at \$4 each, and the cost function is C=2.5x +28?

Homework

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