

The Supply Side of the Market in

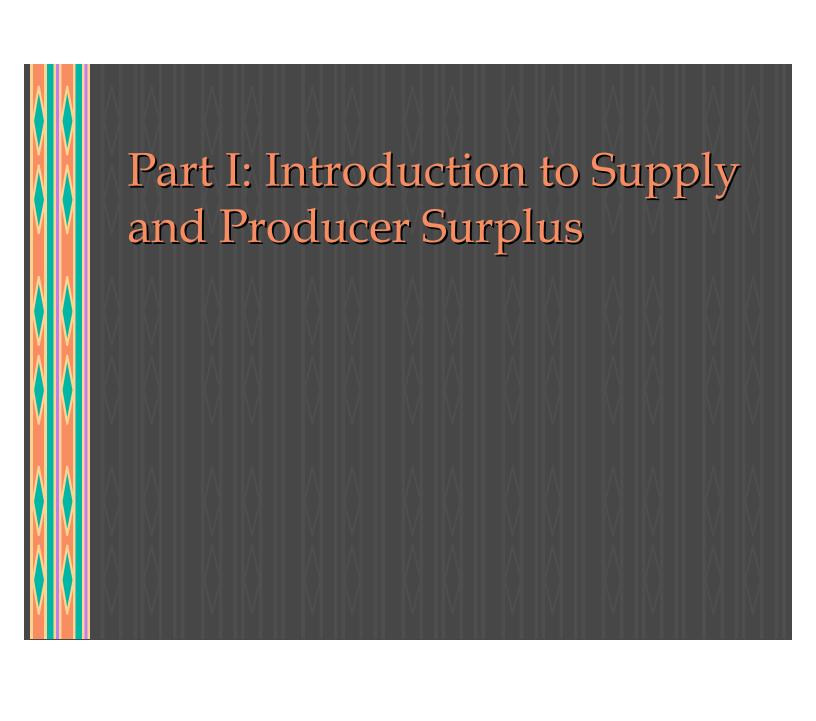
Three Parts:

I. An Introduction to Supply and Producer Surplus
II. The Production Function
III. Cost Functions





- ◆The Law of Diminishing Marginal Product
- ◆The MP/P Rule
- ◆Economic Cost vs. Accounting Cost
- ◆Economic Profit vs. Accounting Profit
- ◆The Unimportance of Sunk Cost

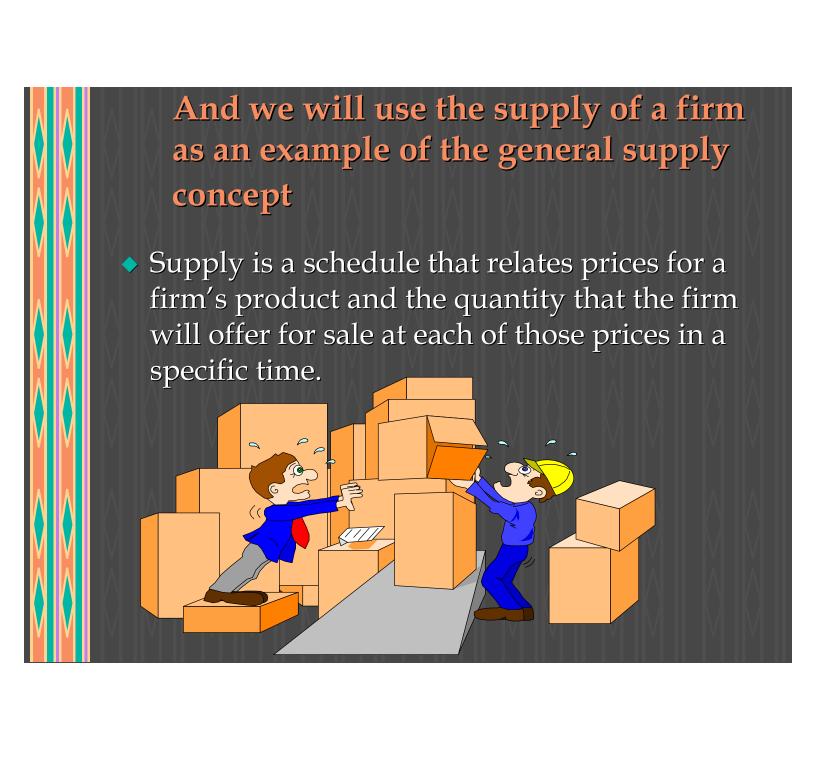


What is Supply?

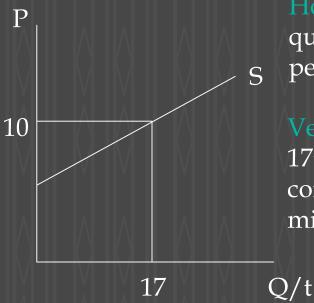
- It is the relationship between quantity supplied and price, c. p., within a specific period.
- Or, it is the relationship between necessary compensation and willingness to offer something of value

Individual vs. Market Supply

- Market supply is the horizontal sum of individual supplies
- As with demand, it is market supply that commands our interest



Two Ways to View Supply



Horizontally: At \$10 the quantity supplied is 17 units per period

Vertically: The supply of the 17th unit requires a minimum compensation of \$10, that is min WTA = \$10

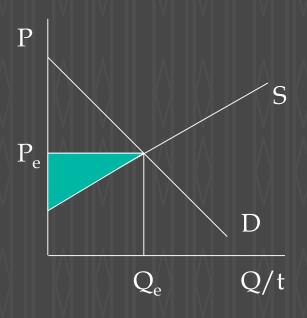
And Remember

- Supply is the offer of something of value; anything, your time, friendship, charity at the minimum compensation necessary
- We use firms and their supply of products as illustrative of supply concept, but not meaning these concepts are limited to firms and their supply
- Another important application of supply is labor: the minimum compensation necessary to induce work

We use Supply to estimate Producer Welfare

- Producer Surplus is an economic measure of welfare of sellers, producers, suppliers
- Producer Surplus is the difference between the reward received and the minimum compensation necessary to induce the effort or resource to its current use

Producer Surplus in a Market

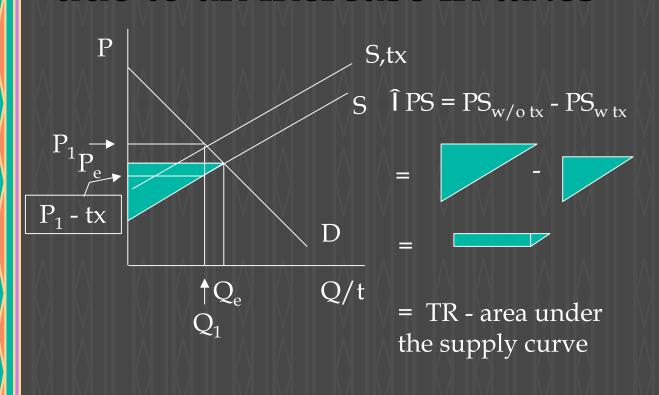


At P_e , Q_e , the producer surplus is the shaded area. The difference between total revenue P*Q and the minimum willingness to accept to induce a supply of Q_e which is the area under the supply curve from the origin to Q_e

Change in Producer Surplus

- Price controls, taxes, technological changes, demand or supply shifts lead to welfare changes
- To estimate the change in producer welfare we estimate producer surplus with and without the change

Change in Producer Surplus due to an increase in taxes



The End You are ready for Part II on the Production Function