

Intermediate Microeconomics and Its Application

11th Edition

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Chapter 1

Economic Models



What is Microeconomics?

- Economics
 - The study of the **allocation** of **scarce resources** among alternative uses
- Microeconomics
 - The study of the **economic choices individuals** and **firms** make and how those choices create markets

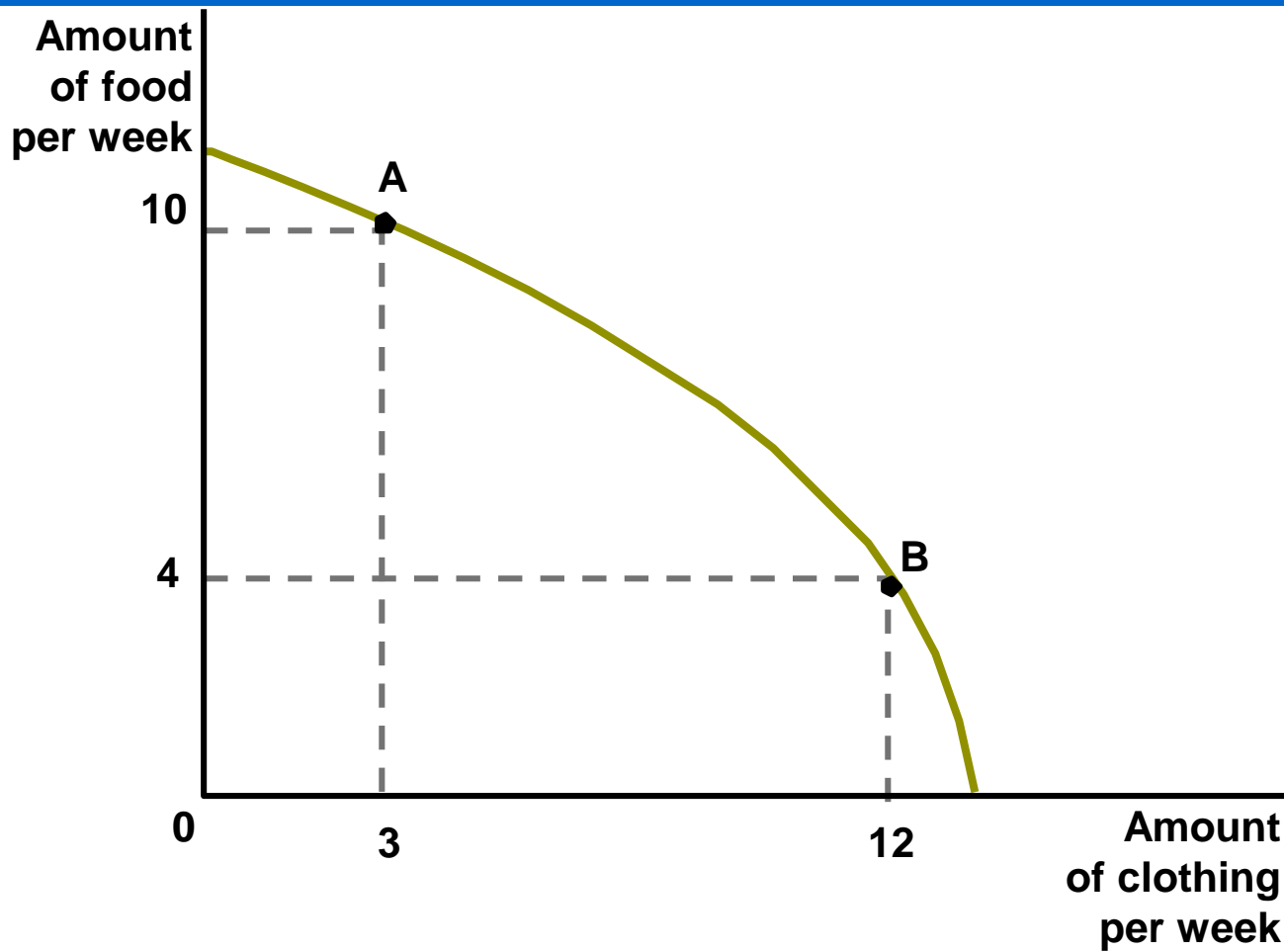
Economic Models?

- Simple theoretical descriptions that **capture** the essentials of **how the economy works**
 - Used because the “real world” is too complicated to describe in detail
 - Models tend to be “unrealistic” but useful
 - While they fail to show every detail (such as houses on a map) they provide enough structure to solve the problem (such as how a map provides you with a way to solve how to drive to a new location)

The Production Possibility Frontier

- A graph showing all possible combinations of goods that can be produced with a fixed amount of resources
- Figure 1.1 shows a production possibility frontier where the good goods are food and clothing produced per week
 - At point A, 10 units of food and 3 units of clothing can be produced

FIGURE 1.1: Production Possibility Frontier



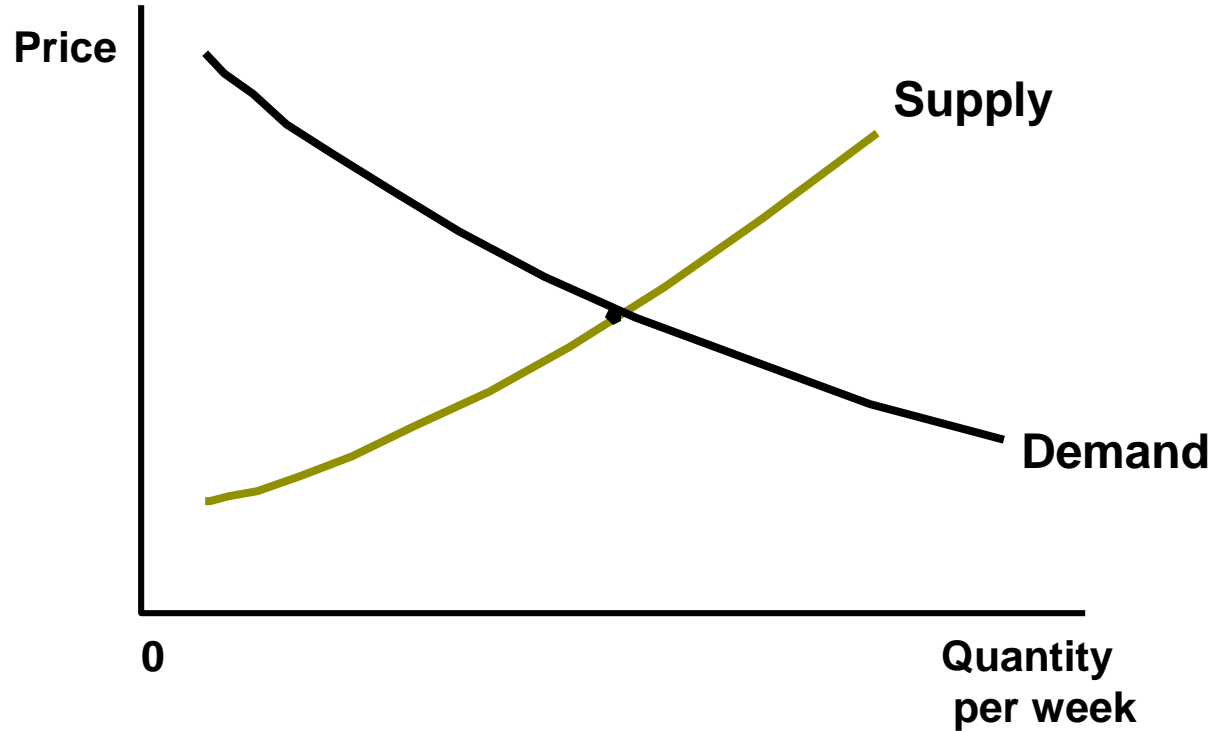
Uses of Microeconomics

- While the uses of microeconomics are varied, one useful way to categorize is by types of users
 - Individuals making decisions regarding jobs, purchases, and finances
 - Businesses making decisions regarding the demand for their product or their costs
 - Governments making policy decisions regarding laws and regulations

The Basic Supply-Demand Model

- A model describing how a good's price is determined by the behavior of the individual's who buy the good and the firms that sell it.
 - Economists argue that market behavior can generally be explained by this model that captures the relationship between consumers' preferences and firms' costs.

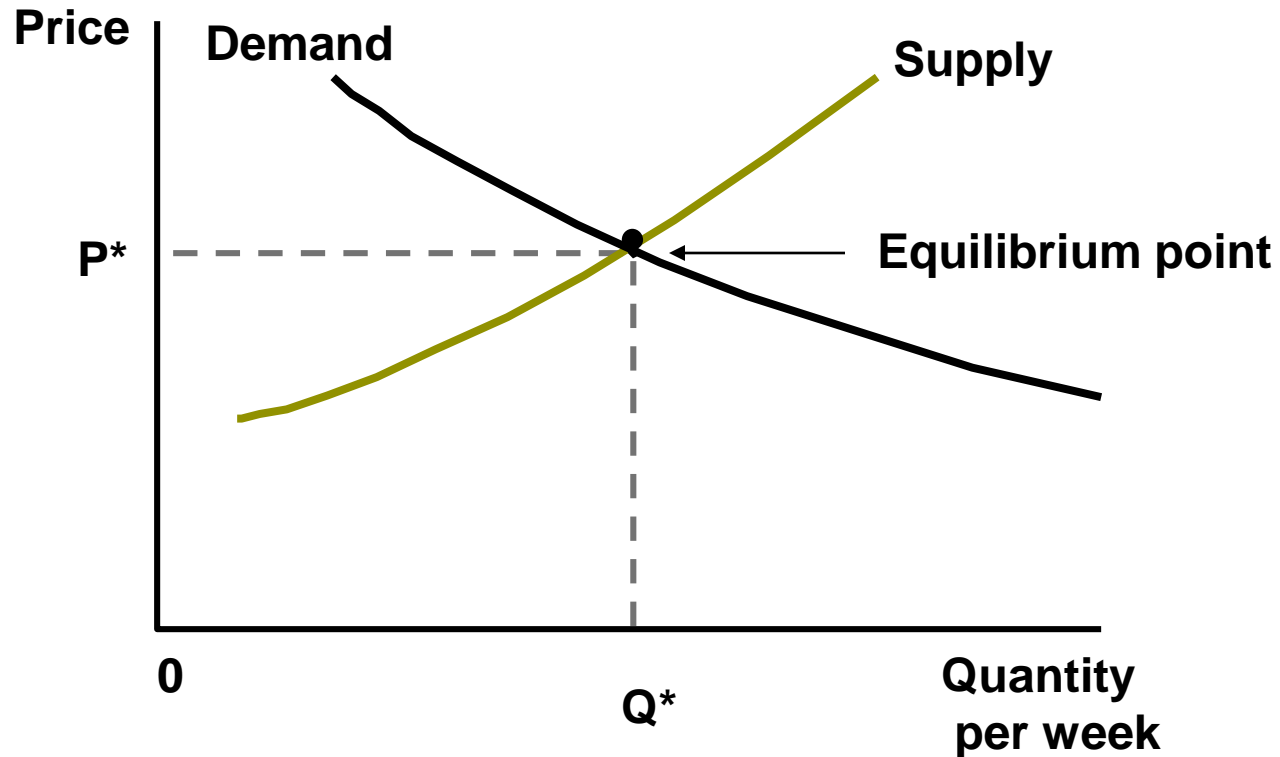
FIGURE 1.3: The Marshall Supply-Demand Cross



Market Equilibrium

- In Figure 1.3, the demand and supply curve intersect at the market equilibrium point P^* , Q^*
- P^* is the equilibrium price: The price at which the quantity demanded by buyers of a good is equal to the quantity supplied by sellers of the good

FIGURE 1.3: The Marshall Supply-Demand Cross



Market Equilibrium

- Both demanders and suppliers are satisfied at this price, so there is no incentive for either to alter their behavior unless something else happens
- Marshall compared the roles of supply and demand in establishing market equilibrium to the two blades of a pair of scissors working together in order to make a cut

Nonequilibrium Outcomes

- If something causes the price to be set above P^* , demanders would wish to buy less than Q^* while suppliers would produce more than Q^*
- If something causes the price to be set below P^* , demanders would wish to buy more than Q^* while suppliers would produce less than Q^*

Change in Market Equilibrium: Increased Demand

- Figure 1.4 shows the case where people's demand for the good increases as represented by the shift of the demand curve from D to D'
- A new equilibrium is established where the equilibrium price has increased to P^{**}

FIGURE 1.4: An increase in Demand Alters Equilibrium Price and Quantity

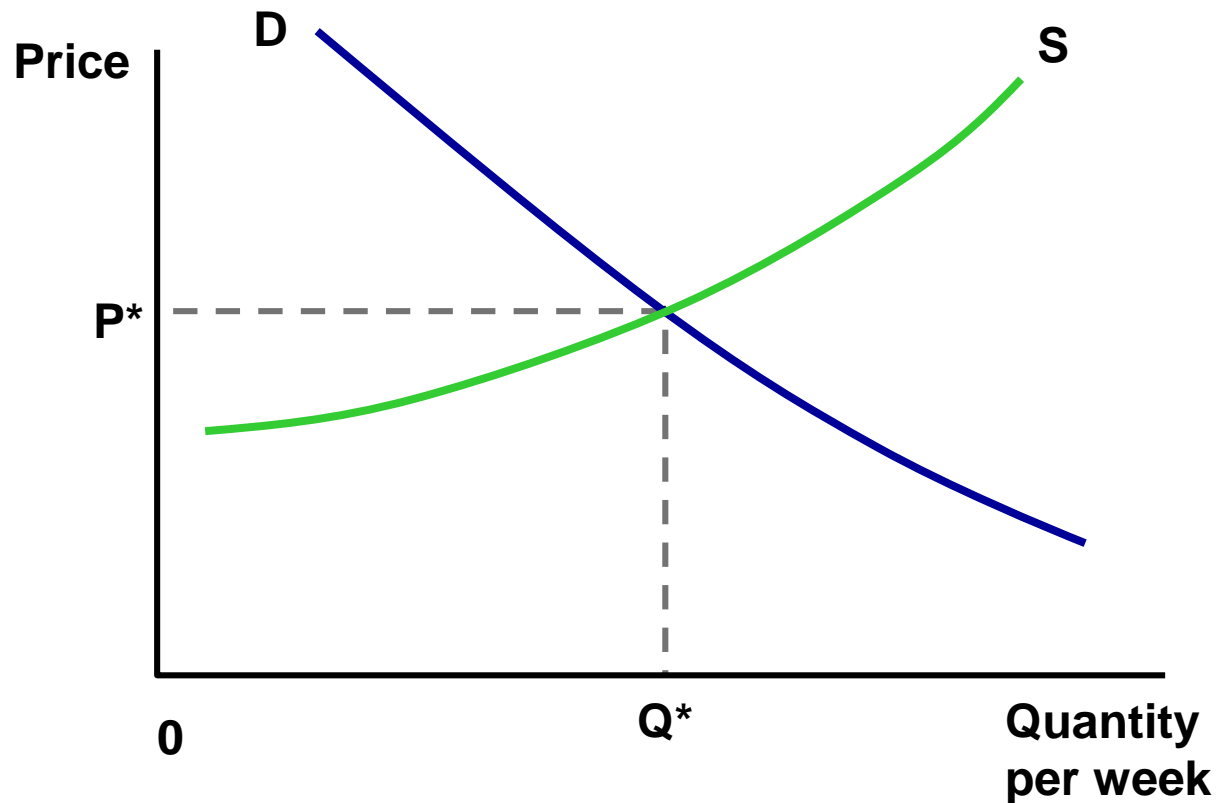
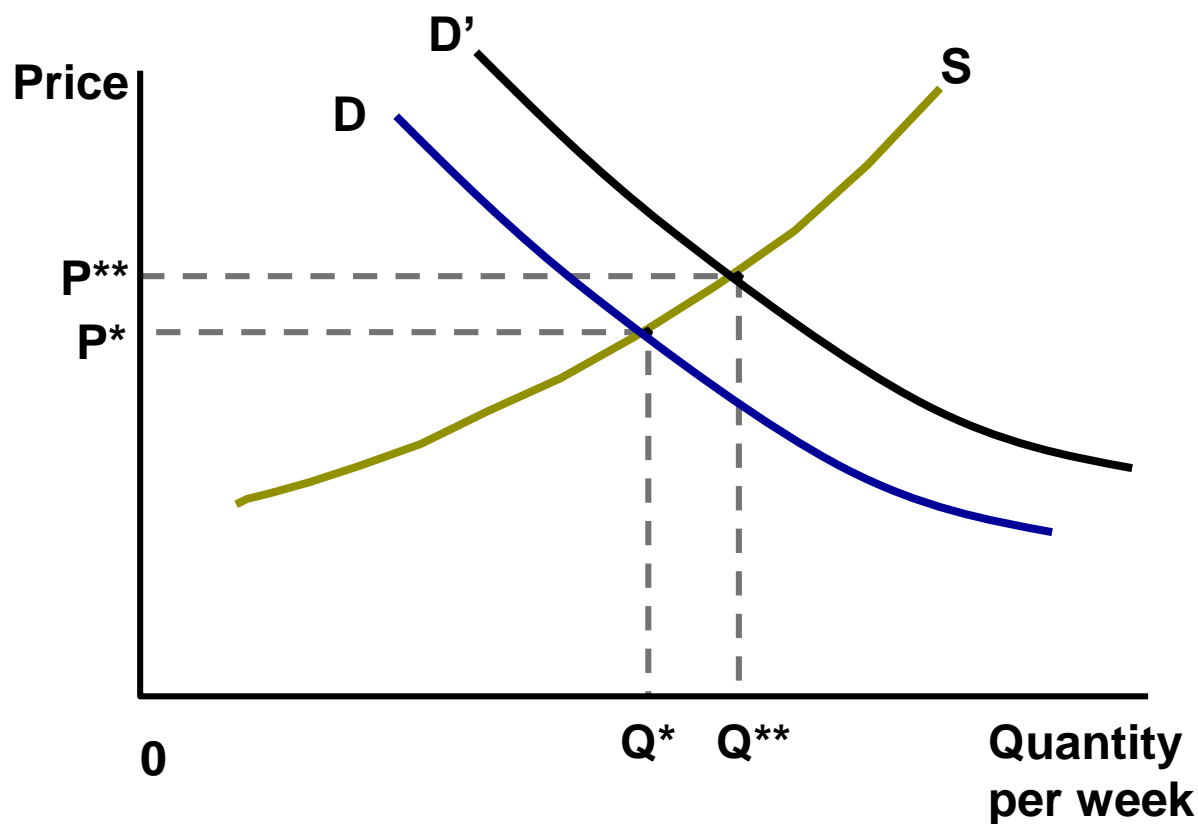


FIGURE 1.4: An increase in Demand Alters Equilibrium Price and Quantity



Change in Market Equilibrium: decrease in Supply

- In Figure 1.5 the supply curve has shifted leftward reflecting a decrease in supply brought about because of an increase in supplier costs (say an increase in wages)
- At the new equilibrium price P^{**} consumers respond by reducing quantity demanded along the Demand curve D

FIGURE 1.5: A shift in Supply Alters Equilibrium Price and Quantity

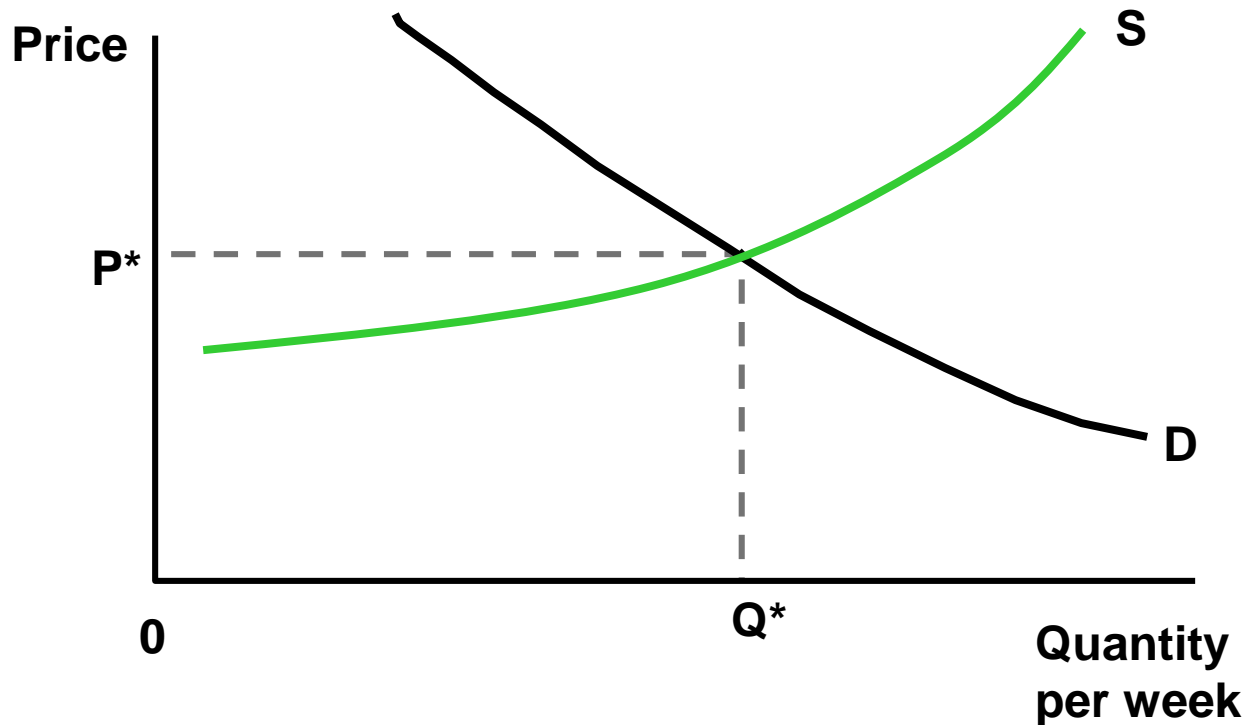


FIGURE 1.5: A shift in Supply Alters Equilibrium Price and Quantity

