

Demand & Supply – Objectives

- Describe a competitive market and think about a price as an opportunity cost
- Explain the influences on demand
- Explain the influences on supply
- Explain how demand and supply determine prices and quantities bought and sold
- Use demand and supply to make predictions about changes in prices and quantities

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Markets and Prices

- A market is any arrangement that enables buyers and sellers to get information and do business with each other.
- A competitive market is a market that has many buyers and many sellers so no single buyer or seller can influence the price.
- The money price of a good is the amount of money needed to buy it.
- The relative price of a good—the ratio of its money price to the money price of the next best alternative good—is its *opportunity cost*.

Demand

- If you demand something, then you:
- Want it,
- Can afford it, and
- Have made a definite plan to buy it.
- Wants are the unlimited desires or wishes people have for goods and services. Demand reflects a decision about which wants to satisfy.
- The quantity demanded of a good or service is the amount that consumers plan to buy during a particular time period, and at a particular price.

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What Determines Buying Plans?

- The amount of any particular good or service that consumers plan to buy is influenced by
- 1. The price of the good,
- 2. The prices of other goods,
- 3. Expected future prices,
- 4. Income,
- 5. Population, and
- 6. Preferences.

The Law of Demand

- The law of demand states:
- Other things remaining the same, the higher the price of a good, the smaller is the quantity demanded.
- The law of demand results from
- a substitution effect
- an income effect

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Substitution Effect and Income Effect

- **Substitution effect**—when the relative price (opportunity cost) of a good or service rises, people seek substitutes for it, so the quantity demanded decreases.
- **Income effect**—when the price of a good or service rises relative to income, people cannot afford all the things they previously bought, so the quantity demanded decreases.

Demand Curve and Demand Schedule

- The term demand refers to the entire relationship between the price of the good and quantity demanded of the good.
- A demand curve shows the relationship between the quantity demanded of a good and its price when all other influences on consumers' planned purchases remain the same.

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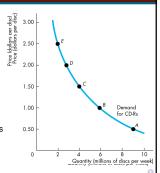
Demand Curve for a Product

 Price hike decreases the quantity demanded and a movement along the demand curve.

A demand curve is a willingness-and-ability-to-pay curve.

The smaller the quantity available, the higher is the marginal willingness to pay. Willingness to pay measures

Willingness to pay measures marginal benefit.



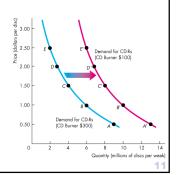
A Change in Demand

- When any factor that influences buying plans other than the price of the good changes, there is a change in demand for that good. The quantity of the good that people plan to buy changes at each and every price, so there is a new demand curve.
- When demand increases, the quantity that people plan to buy increases at each and every price so the demand curve shifts rightward.
- When demand decreases, the quantity that people plan to buy decreases at each and every price so the demand curve shifts leftward.

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Change in Demand: Prices of Related Goods

- "A substitute is a good that can be used in place of another good.
- "A complement is a good that is used in conjunction with another good.
- When the price of substitute for CD-Rs rises or when the price of a complement for CD-Rs falls, the demand for CD-Rs increases.



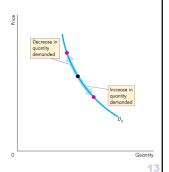
Change in Demand

- Expected future prices
- If the price is expected to rise in the future, current demand increases and the demand curve shifts rightward.
- Income
- A normal good is one for which demand increases as income increases. An inferior good is a good for which demand decreases as income increases.
- Population
- The larger the population, the greater is the demand.
- Preferences
- People with the same income may have different preferences.

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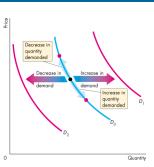
A Change in the **Quantity Demanded**Vs. a Change in **Demand**.

When the price of the good changes and everything else remains the same, there is a change in the quantity demanded and a movement along the demand curve.



A Change in the Quantity Demanded Vs. a Change in Demand

"When one of the other factors that influence buying plans changes, there is a change in demand and a shift of the demand curve.



Supply

- If a firm supplies a good or service, then the firm:
- Has the resources and the technology to produce it,
- Can profit form producing it, and
- Has made a definite plan to produce and sell it.
- Resources and technology determine what it is possible to produce. Supply reflects a decision about which technologically feasible items to produce.
- The quantity supplied of a good or service is the amount that producers plan to sell during a given time period at a particular price.

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What Determines Selling Plans?

The amount of any particular good or service that a firm plans to supply is influenced by

- 1. The price of the good,
- 2. The prices of resources needed to produce it,
- 3. The prices of related goods produced,
- 4. Expected future prices,
- 5. The number of suppliers, and
- 6. Available technology.

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The Law of Supply

- The law of supply states:
- Other things remaining the same, the higher the price of a good, the greater is the quantity supplied.
- The law of supply results from the general tendency for the marginal cost of producing a good or service to increase as the quantity produced increases (Chapter 2, page 35).
- Producers are willing to supply only if they at least cover their marginal cost of production.

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Supply Curve and Supply Schedule

- The term supply refers to the entire relationship between the quantity supplied and the price of a good.
- The supply curve shows the relationship between the quantity supplied of a good and its price when all other influences on producers' planned sales remain the same.

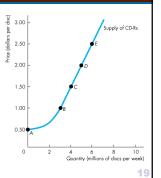
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Supply Curve of a Product

A rise in the price, ceteris paribus, brings an increase in the quantity supplied and a movement along the supply curve.

A supply curve is also a *minimum-supply-price* curve.

The greater the quantity produced, the higher is the price that a firm must be offered to be willing to produce that quantity.



Change in Supply

- When any factor that influences selling plans other than the price of the good changes, there is a change in supply of that good. The quantity of the good that producers plan to sell changes at each and every price, so there is a new supply curve.
- When supply increases, the quantity that producers plan to sell increases at each and every price so the supply curve shifts rightward.
- When supply decreases, the quantity that producers plan to sell decreases at each and every price so the supply curve shifts leftward.

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Factors That Change Supply

- Prices of productive resources
- If the price of resource used to produce a good rises, the minimum price that a supplier is willing to accept for producing each quantity of that good rises. So a rise in the price of productive resources decreases supply and shifts the supply curve leftward.
- Prices of related goods produced
- A substitute in production for a good is another good that can be produced using the same resources. Goods are complements in production if they must be produced together.
- The supply of a good increases and its supply curve shifts rightward if the price of a substitute in production falls or if the price of a complement in production rises.

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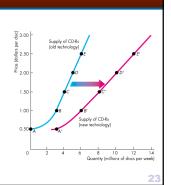
Factors That Change Supply

- Expected future prices
- If the price of a good is expected to fall in the future, current supply increases and the supply curve shifts rightward.
- ■The number of suppliers
- The larger the number of suppliers of a good, the greater is the supply of the good. An increase in the number of suppliers shifts the supply curve rightward.
- Technology
- Advances in technology create new products and lower the cost of producing existing products, so they increase supply and shift the supply curve rightward.

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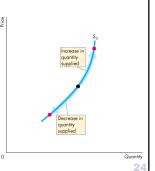
Change in Supply

• An advance in the technology for producing recordable CDs increases the supply of CD-Rs and shifts the supply curve for CD-Rs rightward.



A Change in the **Quantity Supplied**Vs. a Change in **Supply**

When the price of the good changes and other influences on selling plans remain the same, there is a change in the quantity supplied and a movement along the supply curve.



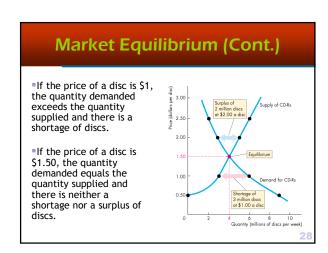
A Change in the Quantity Supplied Vs. a Change in Supply When one of the other factors that influence selling plans changes, there is a change in supply and a shift of the supply curve.

Market Equilibrium

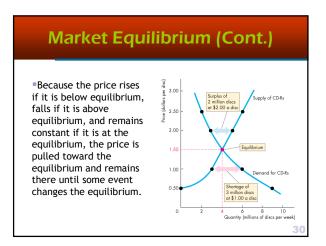
- Equilibrium is a situation in which opposing forces balance each other. Equilibrium in a market occurs when the price balances the plans of buyers and sellers.
- The equilibrium price is the price at which the quantity demanded equals the quantity supplied.
- The equilibrium quantity is the quantity bought and sold at the equilibrium price.
- Price regulates buying and selling plans.
- Price adjusts when plans don't match.

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Market Equilibrium (Cont.) Price as a Regulator The figure illustrates the equilibrium price 를 _{2.50} and equilibrium quantity in the market for CD-Rs. If the price of a disc is 1.50 \$2, the quantity 1.00 supplied exceeds the quantity demanded and there is a surplus of discs.



Market Equilibrium (Cont.) ■ Price Adjustments At prices above the equilibrium, a surplus forces the price down. 2.50 At prices below the 2.00 equilibrium, a shortage forces the price up. At the equilibrium 1.00 price, buying plans selling plans agree and the price doesn't change.



Predicting Changes in Price and Quantity A Change in Demand An increase in demand shifts the demand curve rightward and creates a shortage at the original price. The price rises and the quantity supplied increases.

