Determination of Price and Quantity Determinants of supply and demand Predicting changes in equilibrium

Supply and Demand

ECO 120: Global Macroeconomics

Specific Goals

- Learn what demand is and what influences demand.
- Learn what supply is and what influences supply.
- Learn how prices and quantities are determined by supply and demand
- Use these skills to make predictions about changes in price and quantity.

Learning Objectives

- LO 2: Apply the supply and demand model to predict quantity and price outcomes of a number of different markets, including markets for currencies, labor, and loanable funds.
- GELO 2: Students will be able to construct and use models to analyze, explain, or predict phenomena.



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Demand: Module 5

Supply: Module 6

Equilibrium: Module 7

- The quantity demanded of a good or service is the amount consumers are willing and able to buy in a given time period at a particular price.
- Law of demand: All other things remaining equal, the higher (lower) the price of the good, the smaller (higher) is the quantity demanded.
- Demand schedule/curve: a table or graph of different quantities demanded for different prices.
- According to the law of demand, the demand curve should be _____ sloping.
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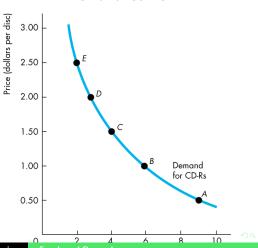
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Demand

Demand Schedule

Point	Price	Q_D
Α	0.5	9
В	1.0	6
C	1.5	4
D	2.0	3
Е	2.5	2

Demand Curve



- The demand curve is downward sloping because of the income and substitution effect.
- Substitution effect: when the price of a good rises, people may buy substitute goods instead.
- Income effect: When the price of a good rises, the real purchasing power of your income decreases. When the real value of your income decreases, you buy less of everything.
- Close to correct. More on the income effect later.

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- The quantity supplied of a good or service is the amount producers are willing and able to produce and sell in a given time period at a given price.
- Law of supply: All other things remaining the same, the higher (lower) is the price of a good, the higher (lower) is the quantity supplied.
- Supply schedule or curve: a table or graph of different quantities supplied for different prices.
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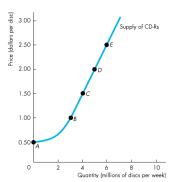
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Supply Schedule

Point	Price	Q_D
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В	1.0	3
C	1.5	4
D	2.0	5
Ε	2.5	6

Supply Curve



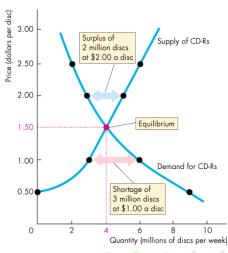
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- This is the price and quantity that will prevail in an unregulated market.

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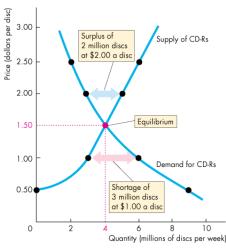
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Equilibrium

- **Surplus**: away from equilibrium, when $Q_S > Q_D$
- **Shortage**: away from equilibrium when $Q_D > Q_S$.



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- **Shortage**: away from equilibrium, when $Q_D > Q_S$.



- When something besides the price of the good effects demand, we say there is a change or shift in demand.
- Something that increases (decreases) demand shifts the demand curve to the right (left).
- Determinants of demand:
 - Changes in prices of related goods
 - Changes in income
 - Changes in expected future income.
 - Expectations of future price
 - Changes in population.
 - Changes in tastes and preferences.



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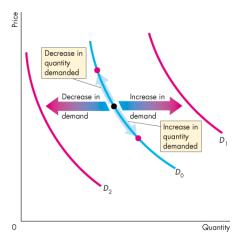
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- **Substitutes**: a substitute good is a good that can be consumed instead of another good.
 - Examples: beef and pork, wine and beer, hamburgers and hot dogs.
- If the price of a substitute for beer increases, this will _____ the demand for beer.
- **Complements**: a complement good is a good that is often consumed together with another good.
 - Examples: Peanut butter and jelly, hamburgers and buns.
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- Inferior good: a good whose demand decreases when consumers' incomes increase.
- Can you think of examples of an inferior good?

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- If people expect the price of the good to increase, this will
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- If a good is a normal good and people expect to have higher incomes in the future, this will _____ the demand for the good.
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- Something that increases (decreases) demand shifts the supply curve to the right (left).
- Determinants of supply:
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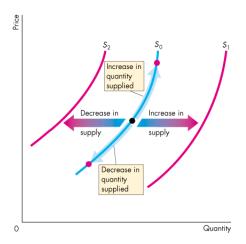


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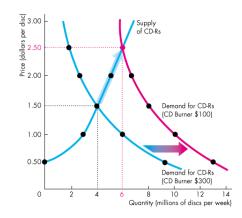
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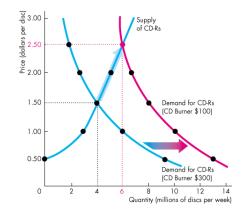
Predicting changes in equilibrium

- Price of a complement decreases → shift demand to the right.
- Equilibrium price _____
 and equilibrium quantity
- Is this what really happened to the price and quantity of CD-Rs in real life?



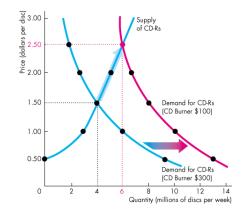
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Next Time...

- Supply and demand in class exerciese.
- Apply our knowledge of supply and demand to look at behavior of exchange rates, currencies, imports, and exports (Module 42).