

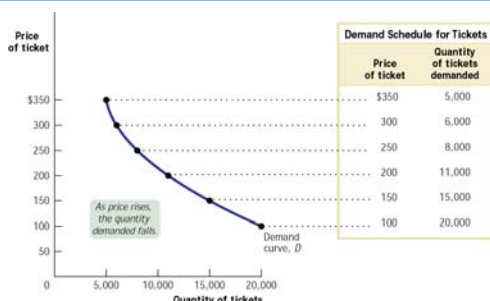
Supply and Demand

- Lecture 3 outline (note, this is Chapter 4 in the text).
 - ▣ The demand curve
 - ▣ The supply curve
 - ▣ Factors causing *shifts* of the demand curve and *shifts* of the supply curve.
 - ▣ Market equilibrium
 - ▣ Demand and supply shifts and equilibrium prices

The Demand Curve

- The demand curve...
 - ▣ Graphically shows how much of a good consumers are willing to buy (holding their incomes, preferences, and other things constant) at different prices.
- The demand curve shows the relationship between price and quantity demanded, holding other things constant.
 - ▣ Economists frequently use the Latinism "*ceteris paribus*," which means "other things equal".

The "Law" of Demand



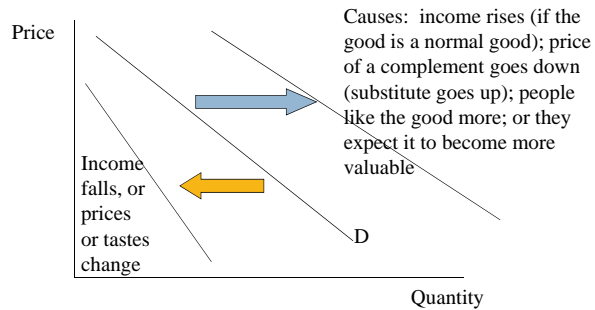
Higher price for a good, other things equal, leads people to demand a smaller quantity of the good.

Shifts in Demand

- The "other things equal" assumption is extremely important.
 - ▣ If other things are not held constant, demand will *shift*.
- Factors causing demand to shift include
 - ▣ Changes in the prices of related goods.
 - ▣ Substitutes and complements
 - ▣ Changes in income
 - ▣ Normal goods and inferior goods
 - ▣ Changes in tastes, and
 - ▣ Changes in expectations.

Shifts in Demand: Examples

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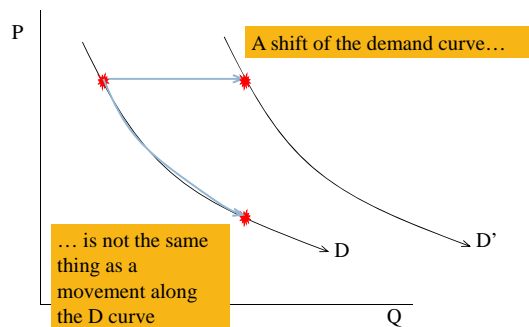
A Pitfall: Confusing Movements Along vs. Shifts in Demand

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- Price changes cause movements along a demand curve.
- Other factors will cause shifts in demand.
 - Increase in the price of peanuts will cause a reduction (shift) in the demand for jelly.
 - Discovery that peanut M&Ms increase lifespan would reduce demand for Butterfingers.
 - Increases in income will (generally) reduce demand for Kraft dinners (or Ramen noodles).
 - Increases in the expected value of a college degree would increase demand for college.

Movements Along vs. Shifts in the Demand Curve

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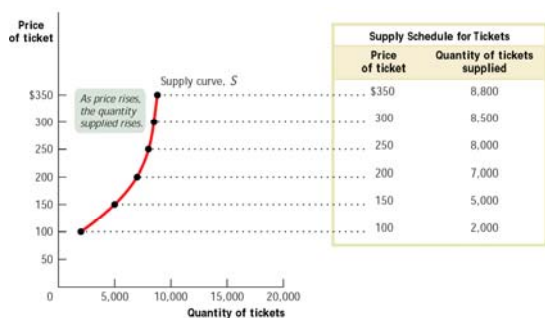


The Supply Curve

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- The supply curve shows the amount of good or service suppliers will be willing and able to sell at a particular time at a particular price, *ceteris parabus*.
- The supply curve is upward sloping because, all else being equal, as the price of a good rises, people are willing to sell a greater quantity of the good.

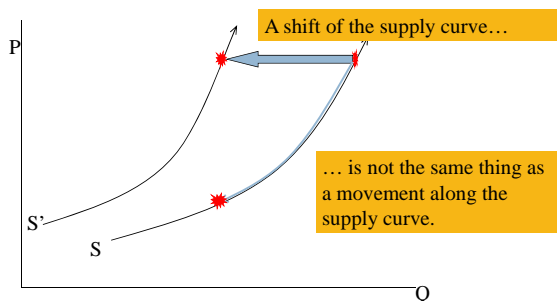
The Supply Curve



What Causes Shifts in the Supply Curve?

- Changes in input prices.
 - ▣ An *input* is a good that is used to produce another good.
 - An increase in the price of steel will lower the supply of automobiles.
- ▣ Changes in technology.
 - Better engineering can increase the supply of computers. More computers will be supplied at a given price.
- ▣ Changes in expectations.
 - Changing diet fads will reduce the supply of products like "low carbohydrate bread and pasta."

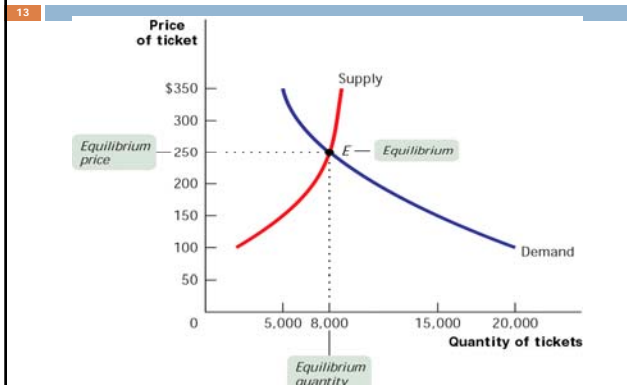
Movement Along and Shifts in the Supply Curve



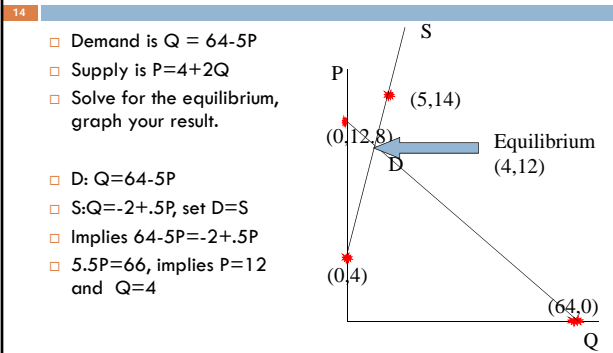
Market Equilibrium

- A *competitive market* is in equilibrium when price has moved to a level at which quantity demand equals quantity supplied of that good.
 - ▣ Competitive markets have many buyers and sellers and none is large enough to individually affect the price.
- Why do markets reach an equilibrium?
 - ▣ If prices are too high, there is excess supply (a surplus) and people will lower prices.
 - ▣ If prices are too low, there is excess demand (a shortage) and people will raise prices.

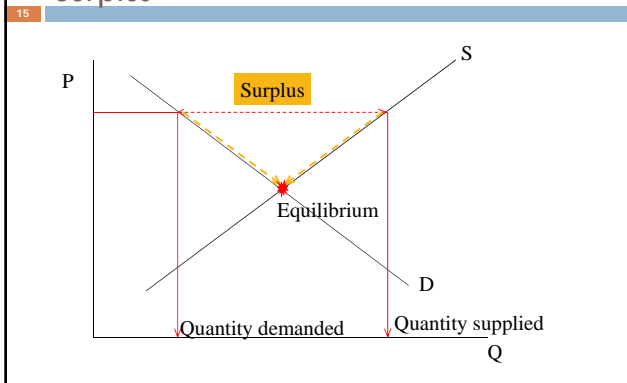
Market Equilibrium



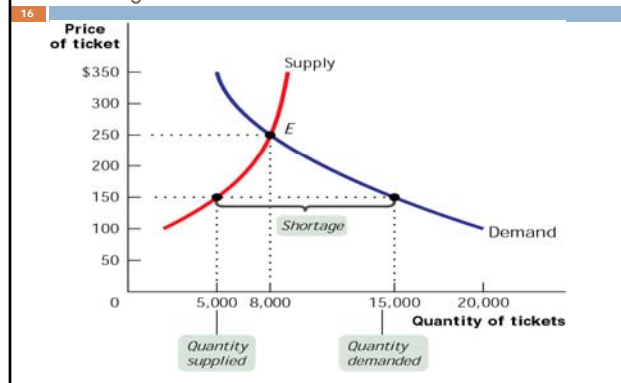
An Example



Prices Above Equilibrium Result in a Surplus

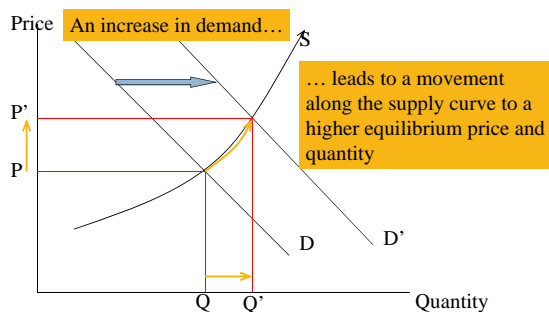


Price Below Its Equilibrium Level Creates a Shortage



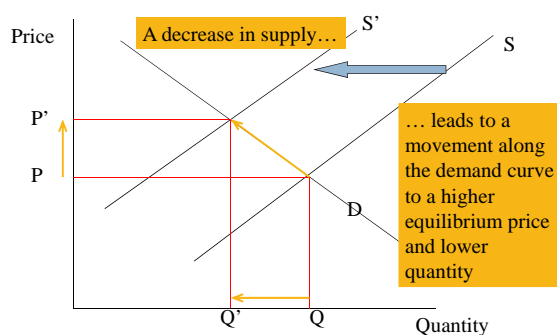
Analyze the (short run) Market for Diet Dr. Pepper if the Surgeon General Says It Promotes Weight Loss

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Analyze the Orange Market if Florida has a Wisconsin Winter

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Simultaneous Shifts of the Demand and Supply Curves: Two Examples

