Chapter 4 The Market Forces of Supply and Demand (p. 51)

- I. Introduction
- II. Demand
- III. Supply
- IV. Market Equilibrium (today)
- V. Disequilibrium (today)
- VI. Scalping and Price Gouging (today)
- VII. Comparative Statics Analysis (Thursday)
- VIII. The Role of Prices (Thursday)







Shift Factors of Demand

- Prices of related goods
- Income
- Expectations
- Population
- Preferences

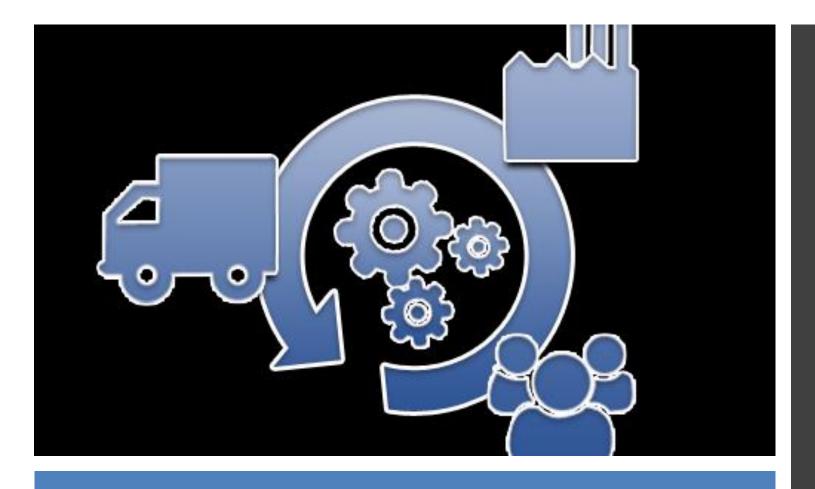
SUPPLY

QUANTITY SUPPLIED

• THE LAW OF SUPPLY

 The supply of shaved heads and threshold values

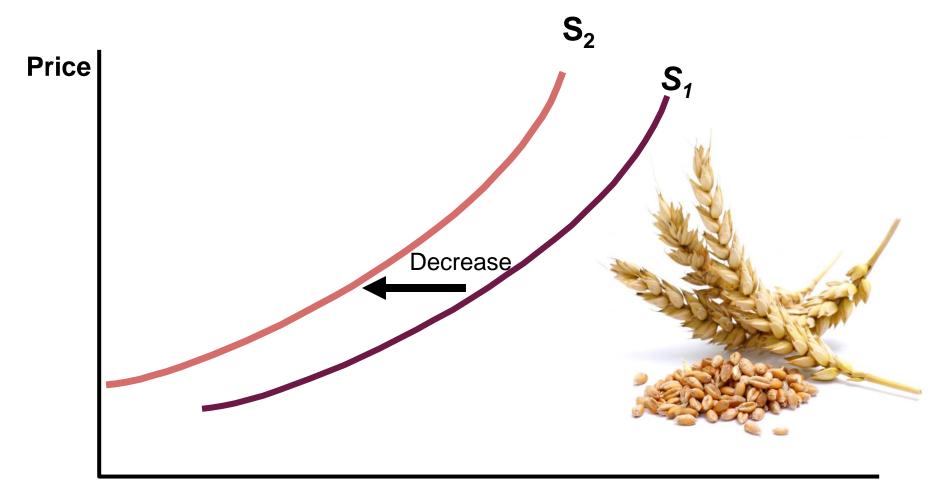




Determinants of Supply

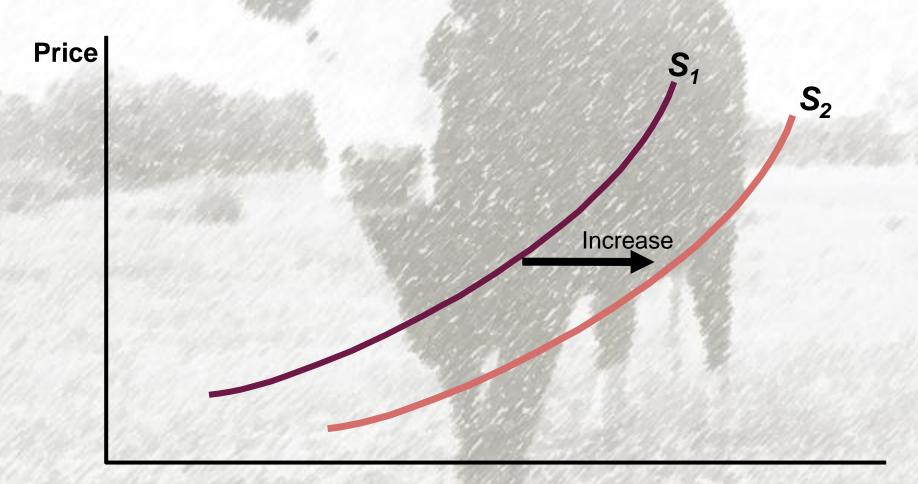
- Input Prices
- Technology
- Expectations
- Taxes and Subsidies
- Number of Producers
- Disasters/Political Disruptions
- Prices of Goods
 Related in Production

7) Prices of good related in production, p. 66
i) Substitutes in Production
The <u>market for wheat</u> when the <u>price of corn</u> rises. (for biofuel use)



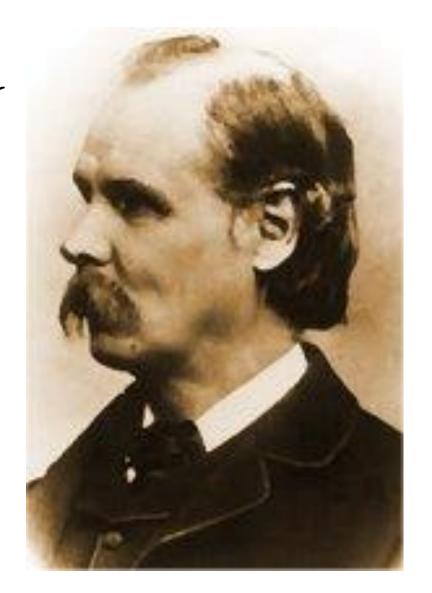
Quantity

7) Prices of good related in production, p. 66
ii) Complements in Production
The market for raw leather when the price of beef rises.

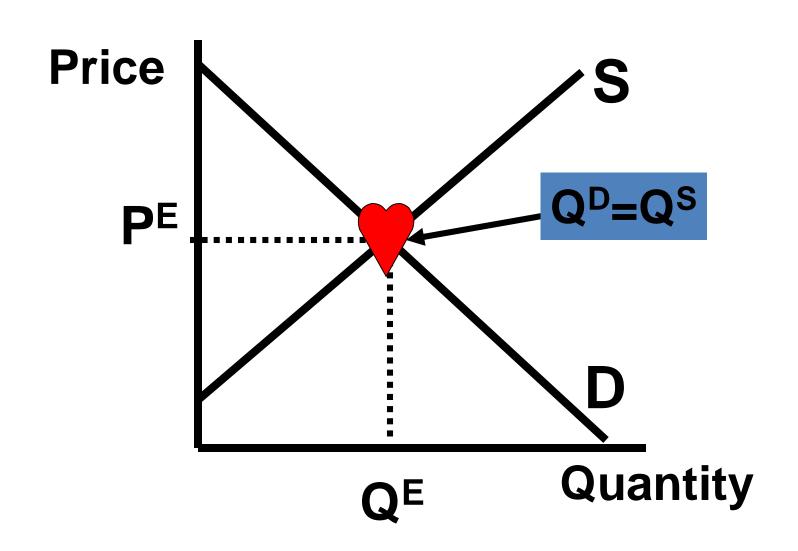


Quantity

We might as well reasonably dispute whether it is the upper or under blade of a pair of scissors that cuts a piece of paper, as whether value is governed by Idemand I or Isupply I. - Alfred Marshall



IV. Market Equilibrium-Graphically, p. 67





Numerically, p.67

Q ^D Apartments per month	Q ^S Apartments per month
400,000	700,000
475,000	625,000
550,000	550,000
625,000	475,000
700,000	400,000
775,000	325,000
850,000	250,000
	per month 400,000 475,000 550,000 625,000 700,000 775,000

WHERE IS EQUILIBRIUM IN THIS MARKET?

At \$900 - surplus

Numerically

Price: Monthly rent per apartment	Q ^D Apartments per month	Q ^S Apartments per month
\$900	400,000	700,000
\$800	475,000	625,000
\$700	550,000	550,000
\$600	625,000	475,000
\$500	700,000	400,000
\$400	775,000	325,000
\$300	850,000	250,000

WHERE IS EQUILIBRIUM IN THIS MARKET?

At \$800 - surplus

Numerically

Price: Monthly rent per apartment	Q ^D Apartments per month	Q ^S Apartments per month
\$900	400,000	700,000
\$800	475,000	625,000
\$700	550,000	550,000
\$600	625,000	475,000
\$500	700,000	400,000
\$400	775,000	325,000
\$300	850,000	250,000

WHERE IS EQUILIBRIUM IN THIS MARKET?

At \$700, QD=QS=
$$550,000$$
 $P^{E} = 700

$$Q^{E} = 550,000$$

Numerically

Price: Monthly rent per apartment	Q ^D Apartments per month	Q ^S Apartments per month
\$900	400,000	700,000
\$800	475,000	625,000
\$700	550,000	550,000
\$600	625,000	475,000
\$500	700,000	400,000
\$400	775,000	325,000
\$300	850,000	250,000

WHERE IS EQUILIBRIUM IN THIS MARKET?

At \$700, QD=QS= 550,000

 $P^{E} = 700

 $Q^{E} = 550,000$

Below \$700 - shortage

Algebraically, (no calculators), p. 68

- Demand Curve: Q^D = 14 2P
- Supply Curve: $Q^S = 4 + 3P$
- at equilibrium $Q^D = Q^S$
- Or 14 2P = 4 + 3P
- Solve for P^E
- 14 = 4 + 5P
- 10 = 5P
- $10/5 = P^E = 2
- $Q^E = 4 + 3(2) = 10$



ICLICKER – REEF POLLING

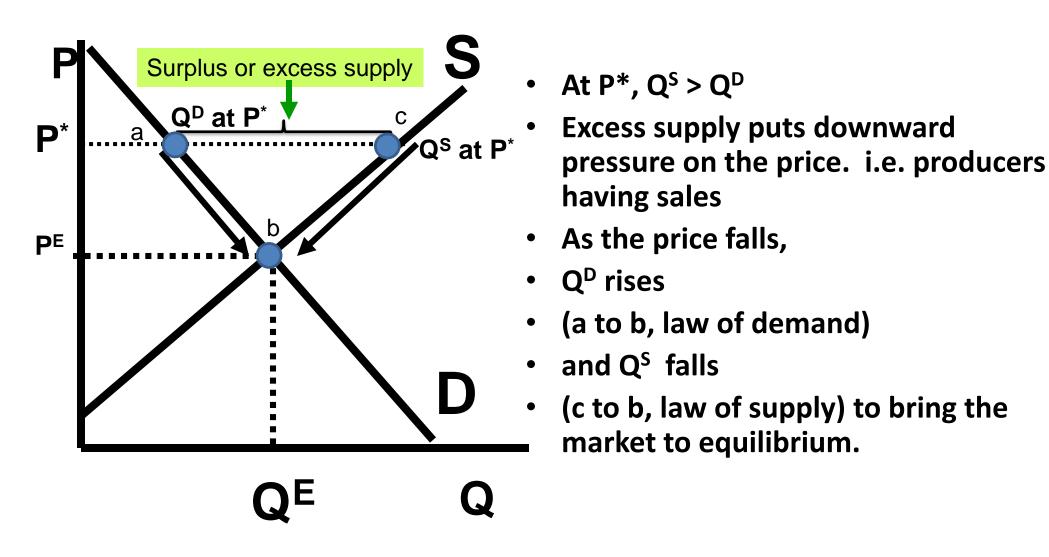


At a	price	of \$1	L50 th	nere	is
		- T			

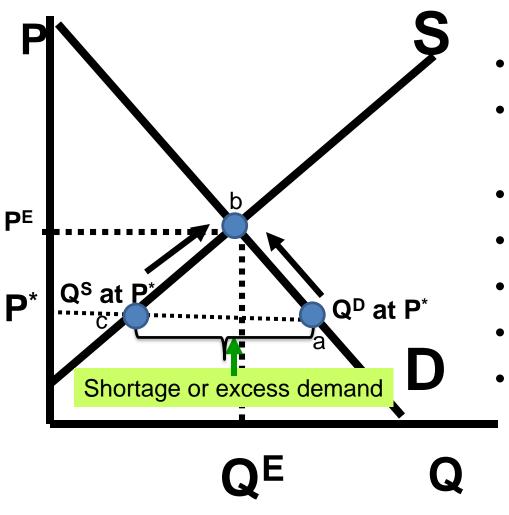
- A. No shortage or surplus
- B. A surplus of 1,000 units
- C. A shortage of 1,000 units
- D. A shortage of 3,600 units

P (\$)	QD	Q ^s
275	3,000	6,000
250	3,400	5,400
220	3,800	4,800
200	4,200	4,200
150	4,600	3,600
100	5,000	3,000

V. Disequilibrium in the Market, A. Excess Supply, p. 69 in packet



V. Disequilibrium in the Market, B. Excess Demand, p. 69 in packet



- At P*, QD > QS
- Excess demand puts upward pressure on the price.
- As the price rises,
- Q^D falls
- (a to b, law of demand)
- and Q^s rises
- (c to b, law of supply) to bring the market to equilibrium.

ICLICKER – REEF POLLING



If Kroger Stadium was completely filled for the last home football game and some people who wanted to go could not get tickets, this is evidence that

- A. ticket prices are above the market equilibrium price.
- B. UK is maximizing the revenue from ticket sales.
- C. UK could make more revenue by raising ticket prices.
- D. The student section needs to be expanded.



VI. Scalping and Price Gouging, p. 70

- Survey at Springsteen "The Rising"
 Concert, Oct. 6, 2003 in Philadelphia,
 PA. Every ticket sold for \$75.
- Interviewed 858 people in the 15 minutes before the start of the show.
- 20-25 percent of tickets scalped. Average resale price was \$300.

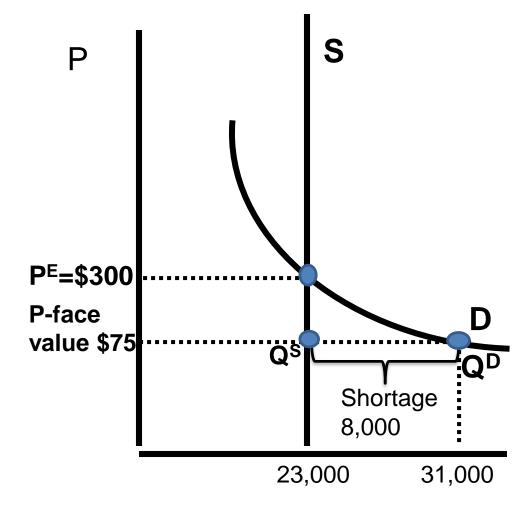






Scalping – The Market for Events

- Initial ticket prices below true P^E
- Causes shortage
- Inefficiencies and costs due to shortages:
 - Waiting in line
 - Fake tickets
- Economic pros of scalping:
 - Helps P reach the true P^E
 - Alleviates shortage
 - More <u>efficient</u> outcome
 - Trade Creates Value



The Ticket Sales Lottery at Rupp Arena

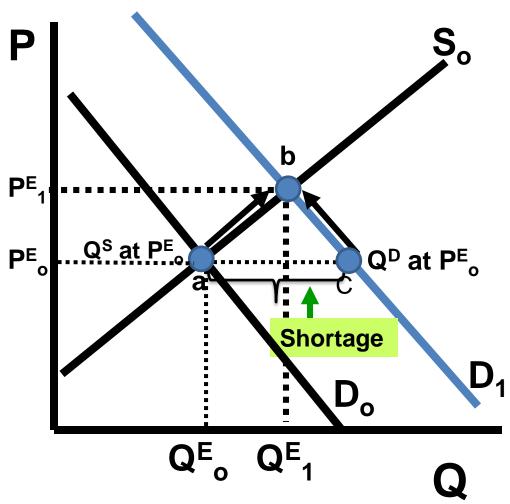




VII. Comparative Statics Analysis, p. 71

- What it is?
- Why we do it?
- One curve shifting
- Two curves shifting

Example 1: One Curve Shifting, p. 71 Market for SUVs when there is a significant decrease in gasoline prices



Market for sport utility vehicles

- At P^E_o, Q^D > Q^S
- Excess demand pushes price up.
- As price rises,
- Q^D falls (c to b)
- Q^S rises (a to b)
- Notice: S curve doesn't shift because D curve shifted.