Chapter 2

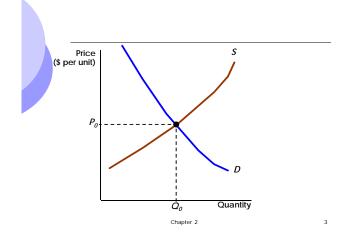
The Basics of Supply and Demand

Qustion: Suppose you bought an apple for 1,000 Won.

•Why 1,000 Won?

•Who determined it?

Chapter 2

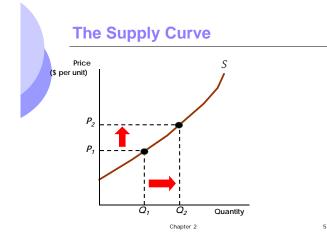


Supply and Demand

- ()
 The relationship between the quantity of a good that producers are willing to sell and the price of the good.
 - OMeasures quantity on the x-axis and price on the y-axis

$Q_{s} = Q_{s}(P)$

Chapter 2



The Supply Curve

- Other Variables Affecting Supply
 Ocosts of Production
 - O Lower costs of production allow a firm to produce more at each price and vice versa

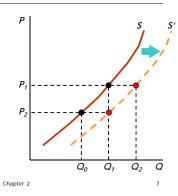
Chapter 2

6

4

Change in Supply

 The cost of raw materials falls



The Supply Curve

- Change in ()
 Movement along the curve caused by a change in price
- Change in ()
 Shift of the curve caused by a change in something other than price

Chapter 2

8



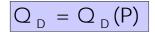
Supply and Demand

• The (

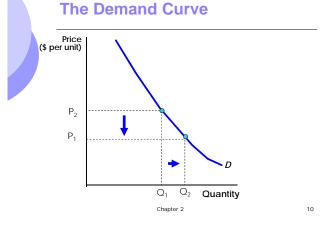
• The relationship between the quantity of a good that consumers are willing to buy and the price of the good.

)

OMeasures quantity on the x-axis and price on the y-axis



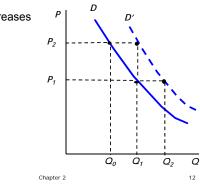
Chapter 2





- Other Variables Affecting Demand
 - OIncome
 - Consumer Tastes
 - OPrice of Related Goods
 - Substitutes
 - Complements





Chapter 2

The Demand Curve

- Changes in () OMovements along the demand curve caused by a change in price.
- Changes in () ○A shift of the entire demand curve caused by something other than price.

Chapter 2

13

The Market Mechanism

 Markets clear when quantity demanded equals quantity supplied at the prevailing price

Chapter 2

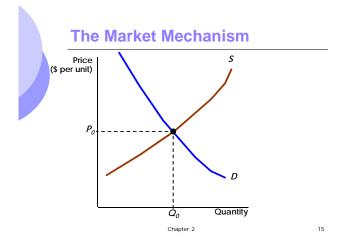
• (

) - price at which

14

16

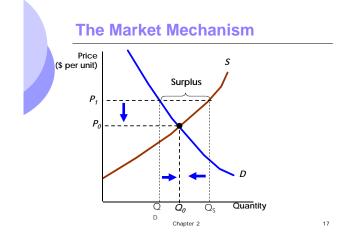
markets clear

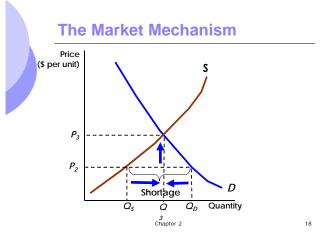


The Market Mechanism

- In equilibrium
 - OThere is no shortage or excess demand OThere is no surplus or excess supply
 - OQuantity supplied equals quantity demanded
- What if $P > P_0$? Or $P < P_0$?

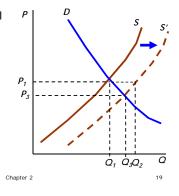
Chapter 2



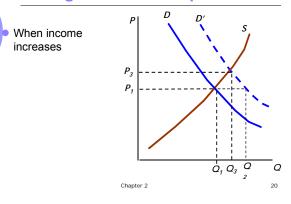


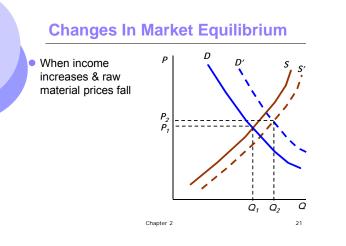
Changes In Market Equilibrium

 When raw material prices fall



Changes In Market Equilibrium





Changes In Market Equilibrium

Question:

Why do the prices of some goods, like apples, go down during the months of heaviest consumption while others, like beachfront cottages, go up?



Seoul-Chuncheon line: Deficit

What to do?
 Raise the price?

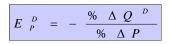
Chapter 2

23

Price Elasticity of Demand

Chapter 2

- Measures the sensitivity of quantity demanded to price changes.
 - It measures the percentage change in the quantity demanded of a good that results from a one percent change in price.



Chapter 2



Price Elasticity of Demand

- The percentage change in a variable is the absolute change in the variable divided by the original level of the variable.
- Therefore, elasticity can also be written as:

$F^{D} - \Delta Q/Q$		$P \Delta Q$
$L_p =$	$\Delta P/P$	$Q \Delta P$

Chapter 2		25

Price Elasticity of Demand

- When E_P > 1, the good is price elastic

 ⁰%ΔQ > % ΔP
- When E_P < 1, the good is price inelastic

 ⁰ΔQ < % ΔP

Chapter 2

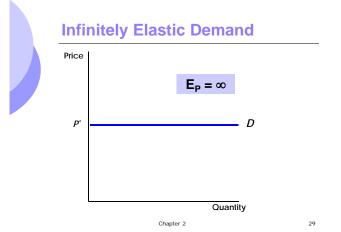
26

28

Price Elasticity of Demand					
Price $E_p = \infty$	Demand Curve Q = 8 - 2P				
\mathbf{z}					
	Inelastic				
4 Chapter 2	$E_p = 0$				

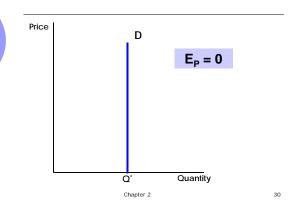
Price Elasticity of Demand

Two extreme cases of demand curves
 Completely inelastic demand – vertical
 Infinitely elastic demand - horizontal



Completely Inelastic Demand

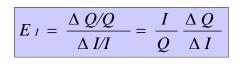
Chapter 2





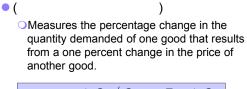
Other Demand Elasticities

()
 Measures how much quantity demanded changes with a change in income.



Chapter 2 31

Other Demand Elasticities



$$E_{Q_b P_m} = \frac{\Delta Q_b / Q_b}{\Delta P_m / P_m} = \frac{P_m}{Q_b} \frac{\Delta Q_b}{\Delta P_m}$$

Chapter 2	32



Other Demand Elasticities Orden Complements: Cars and Tires

• Cross elasticity of demand is negative

• Substitutes: Butter and Margarine OCross elasticity of demand is positive

Chapter 2

Price Elasticity of Supply

 Measures the sensitivity of quantity supplied given a change in price
 Measures the percentage change in quantity supplied resulting from a 1 percent change in price.

$E_P^S =$	% Δ Q ^s
	% Δ <i>P</i>

Chapter 2

Q: Can Good News for Farming Be Bad News for Farmers?

- One day, KNU announces a major discovery.
- Researchers in its agronomy department have devised a new hybrid of wheat that raises the amount farmers can produce from each acre of land by 20 percent.
- Does this discovery make farmers better off?

Chapter 2

Q: Rent Control

- Chuncheon City decided to control rent around KNU campus for students.
- Are KNU students going to be better off?

35

33

Chapter 2

