chapter:

4

>> Consumer and Producer Surplus

Krugman/Wells Economics

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WHAT YOU WILL LEARN IN THIS CHAPTER

- ➤ How much benefit do producers and consumers receive from the existence of a market?
- ➤ How is the welfare of consumers and producers affected by changes in market prices?
- How are these concepts related to the demand and supply curve?
 - Consumer Surplus
 - Producer Surplus
 - Cost
 - Market Failure

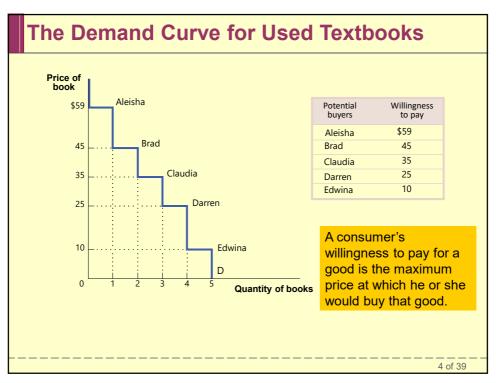
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Consumer Surplus and the Demand Curve

- A consumer's willingness to pay for a good is the maximum price at which he or she would buy that good.
- Individual consumer surplus is the net gain to an individual buyer from the purchase of a good. It is equal to the difference between the buyer's willingness to pay and the price paid.

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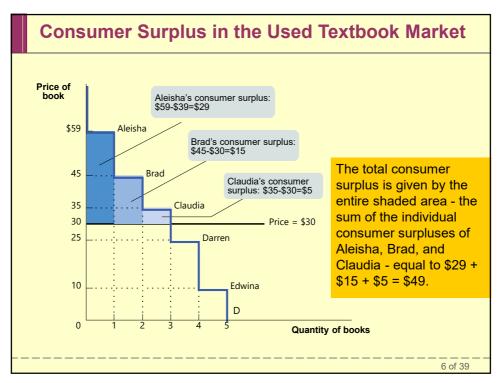


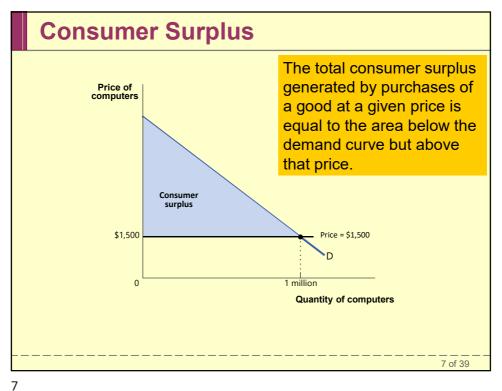
Willingness to Pay and Consumer Surplus

- Total consumer surplus is the sum of the individual consumer surpluses of all the buyers of a good.
- The term consumer surplus is often used to refer to both individual and total consumer surplus.

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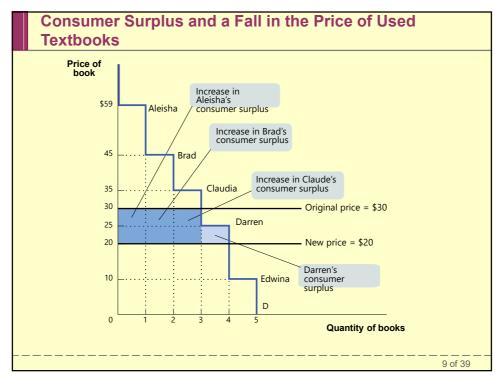
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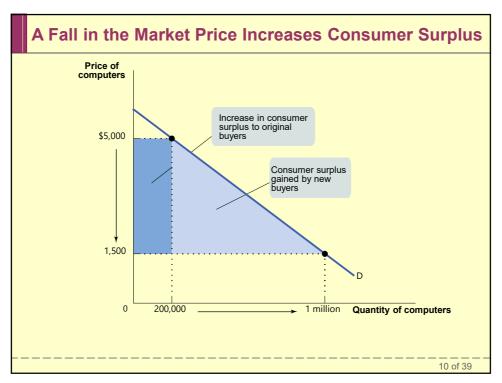




How Changing Prices Affect Consumer Surplus

- A fall in the price of a good increases consumer surplus through two channels:
 - A gain to consumers who would have bought at the original price and
 - A gain to consumers who are persuaded to buy by the lower price.



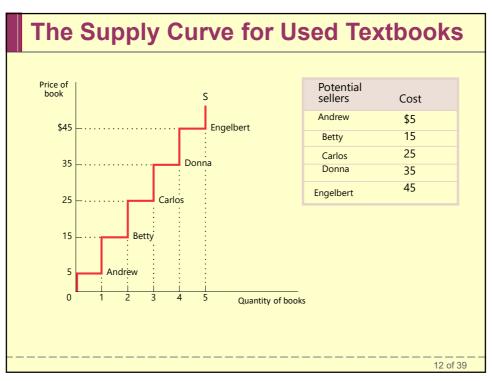


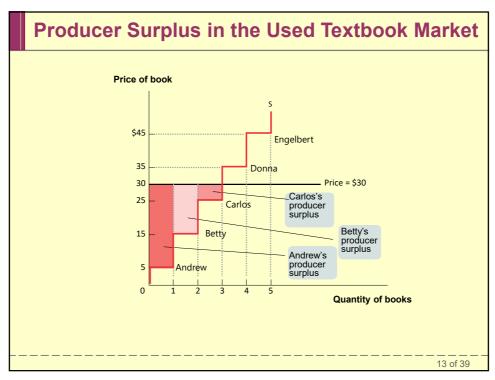
Producer Surplus and the Supply Curve

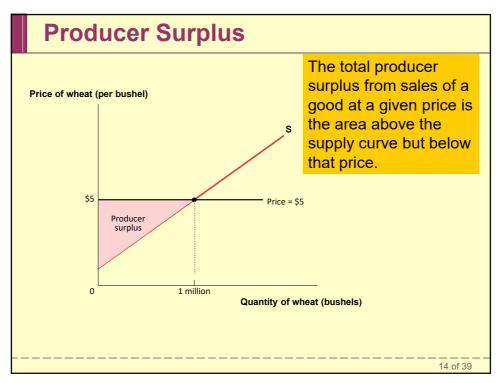
- A potential seller's cost is the lowest price at which he or she is willing to sell a good.
- Individual producer surplus is the net gain to a seller from selling a good. It is equal to the difference between the price received and the seller's cost.
- Total producer surplus in a market is the sum of the individual producer surpluses of all the sellers of a good.

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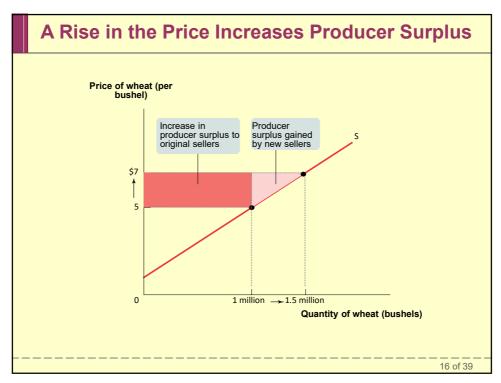


Changes in Producer Surplus

- When the price of a good rises, producer surplus increases through two channels:
 - The gains of those who would have supplied the good even at the original, lower price and
 - The gains of those who are induced to supply the good by the higher price.

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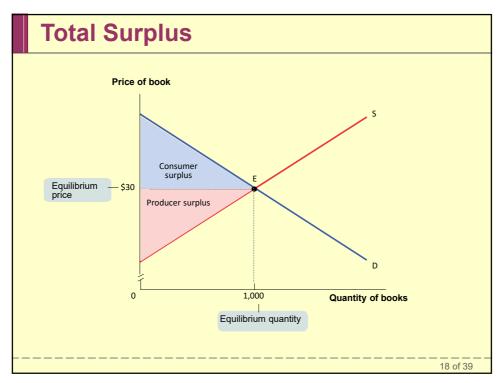


Putting It Together: Total Surplus

- The total surplus generated in a market is the total net gain to consumers and producers from trading in the market. It is the sum of the producer and the consumer surplus.
- The concepts of consumer surplus and producer surplus can help us understand why markets are an effective way to organize economic activity.

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Consumer Surplus, Producer Surplus, and the Gains from Trade

- The previous graph shows that both consumers and producers are better off because there is a market in this good, i.e. there are gains from trade.
- These gains from trade are the reason everyone is better off participating in a market economy than they would be if each individual tried to be selfsufficient.
- But are we as well off as we could be? This brings us to the question of the efficiency of markets.

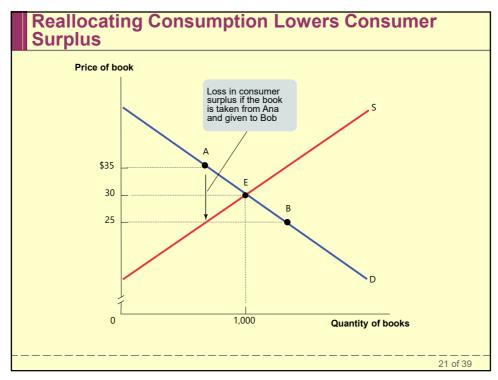
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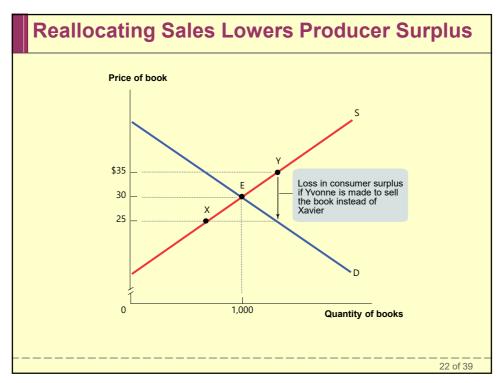
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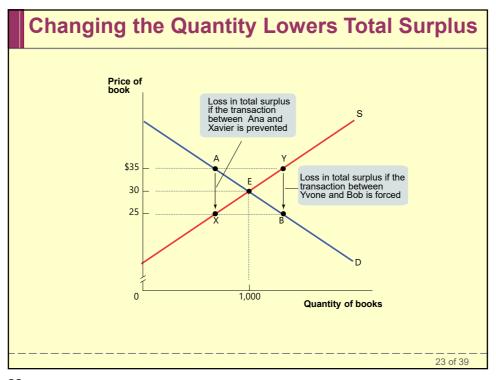
The Efficiency of Markets: A Preliminary View

- <u>Claim</u>: The maximum possible total surplus is achieved at market equilibrium.
- The market equilibrium allocates the consumption of the good among potential consumers and sales of the good among potential sellers in a way that achieves the highest possible gain to society.
- By comparing the total surplus generated by the consumption and production choices in the market equilibrium to the surplus generated by a different set of production and consumption choices, we can show that any change from the market equilibrium reduces total surplus.

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Market Equilibrium Maximizes Total Surplus

- It allocates consumption of the good to the potential buyers who value it the most, as indicated by the fact that they have the highest willingness to pay.
- It allocates sales to the potential sellers who most value the right to sell the good, as indicated by the fact that they have the lowest cost.
- 3. It ensures that every consumer who makes a purchase values the good more than every seller who makes a sale, so that all transactions are mutually beneficial.
- 4. It ensures that every potential buyer who doesn't make a purchase values the good less than every potential seller who doesn't make a sale, so that no mutually beneficial transactions are missed.

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The End of Chapter 4

Coming attraction:
Chapter 5:
Price Controls and
Quotas: Meddling with
Markets

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