Supply and Demand

ECO 120: Global Macroeconomics

ECO 120: Global Macroeconomics Supply and Demand

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Goals

Unit Goals

Define demand and identify what influences demand

Define supply and identify what influences supply

Predict how prices and quantities are determined by supply and demand.

Goals

Reading and Exercises

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Use these skills to make predictions about changes in price and quantity.

Learning Objectives

LO 2: Use the supply and demand model to predict price and quantity outcomes for markets for products and services.

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Reading and Exercises

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Textbook: Demand, Module 5

Textbook: Supply and Equilibrium, Module 6

Textbook: Changes and Equilibrium, Module 7

Canvas Quiz due Wed 11:59 PM.

Multiple-choice, 10 questions, unlimited attempts allowed, only best score counts

Homework/In-class Exercise due Friday 11:59 PM. We will work together in class on Thursday.

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Shifts in Demand Shifts of supply More Example Problems

Demand

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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.

Demand

Equilibrium

Supply

Law of demand: All other things remaining equal, the higher (lower) the price of the good, the smaller (higher) is the quantity demanded.

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Shifts in Demand Shifts of supply More Example Problems

Demand

Quantity

Demand Schedule Demand for Guitars Price \$400 For Guitars В \$300 Price Point Q_D А \$400 0 C \$200 B \$300 50 C \$200 100 \$100 D \$100 150 \$0 50 100 150 200

Demand

Equilibrium

Supply

Demand Curve for Guitars

Law of demand makes the demand curve **downward sloping**. **Change in quantity demanded**: when there is a **change in price** causing a **movement** from one point on the demand curve to another point.

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Demand Supply Equilibrium

Income and Substitution effects

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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Supply

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.

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Shifts in Demand Shifts of supply More Example Problems Demand Supply Equilibrium

Supply

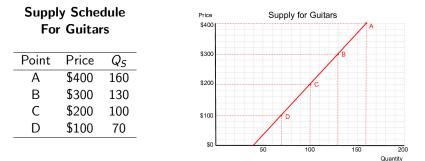
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Supply Curve for Guitars

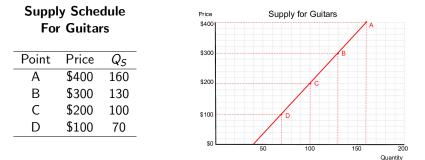


Law of supply makes the supply curve upward sloping.

Change in quantity suppplied: when there is a **change in price** causing a **movement** from one point on the supply curve to another point.

Shifts in Demand Shifts of supply More Example Problems Demand Supply Equilibrium

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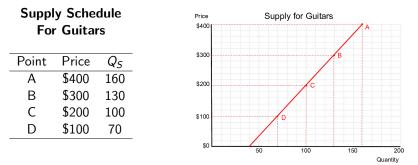


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Shifts in Demand Shifts of supply More Example Problems Demand Supply Equilibrium

Equilibrium

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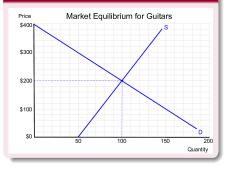
Equilibrium Definition

The **equilibrium price** is the price where the quantity supplied is equal to the quantity demanded.

The **equilibrium quantity** is the corresponding quantity.

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

Graphical Equilibrium



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Shifts in Demand Shifts of supply More Example Problems Demand Supply Equilibrium

Equilibrium

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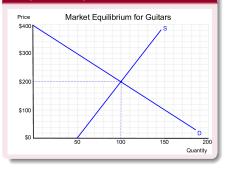
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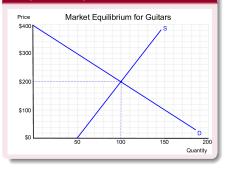
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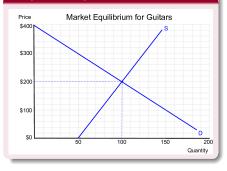
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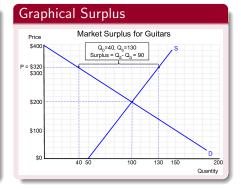
Supply

Surplus

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Surplus Definition

When the prevailing price is **above** equilibrium price, quantity supplied exceeds quantity demanded Difference is the surplus In an unregulated market, market forces will push price lower toward equilibrium



Shifts in Demand Shifts of supply More Example Problems Demand Supply Equilibrium

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In an unregulated market, market forces will push price lower toward equilibrium

Graphical Surplus Market Surplus for Guitars Price \$400 Q_=40, Q_=130 Surplus = Q_- Q_ = 90 P = \$320 \$300 \$200 \$100 sc 200 40 50 100 130 150 Quantity

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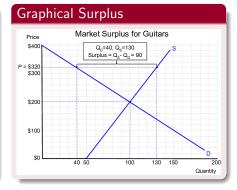
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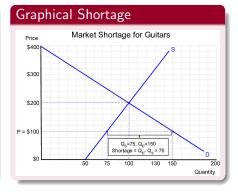
Shortage

Demand Supply Equilibrium

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Shortage Definition

When the prevailing price is **below** equilibrium price, quantity demanded exceeds quantity supplied Difference is the shortage In an unregulated market, market forces will push equilibrium price higher



Shifts in Demand Shifts of supply More Example Problems Demand

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Supply

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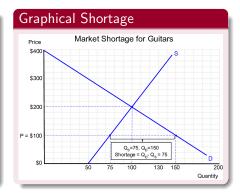
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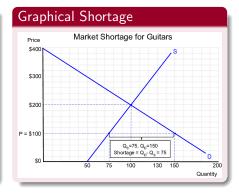
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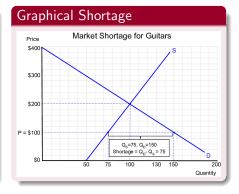
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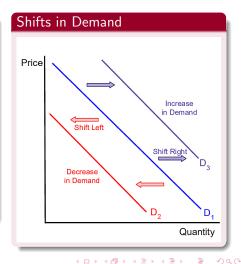


Demand Curve Shifts

Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

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Shifts in Whole Demand Curve



Demand Curve Shifts

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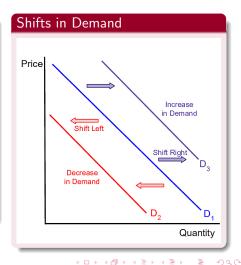
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Shifts in Whole Demand Curve

When something *besides the price of the good* affects demand, we say there is a *change or shift in demand*.

Something that **increases** demand shifts the demand curve to the **right**

Something that **decreases** demand shifts the demand curve to the **left**



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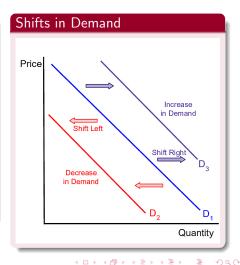
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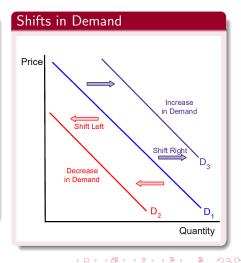
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Substitute Goods

12/ 31

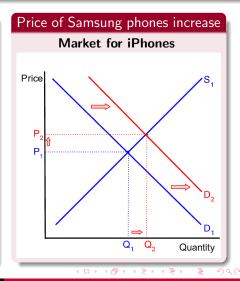
Price of Substitute Goods

Substitutes: a substitute good is a good that can be consumed instead of another good.

Examples: hamburgers and hot dogs, iPhones and Samsung smartphones, E-books and print books

If the price of a **substitute increases**, this will **increase demand** for a good

Eqm price increases, quantity increases



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Supply and Demand

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Consumer Expectations

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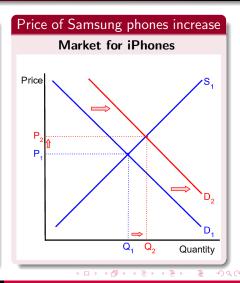
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Graphing Demand Curve Shifts

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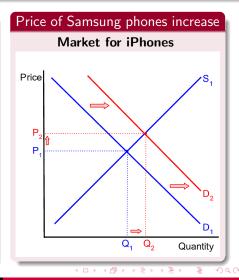
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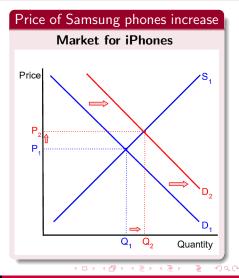
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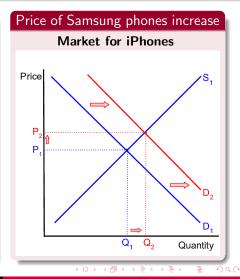
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Complement Goods

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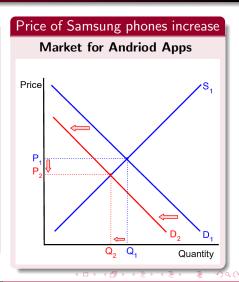
Price of Complement Goods

Compelement: a complement good is a good that is often consumed together with another good.

Examples: peanut butter and jelly, iPads and Ebooks, smartphones and apps

If the price of a **complement increases**, this will **decrease demand** for a good

Eqm price decreases, quantity decreases



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Complement Goods

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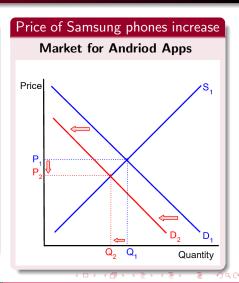
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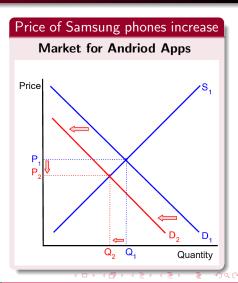
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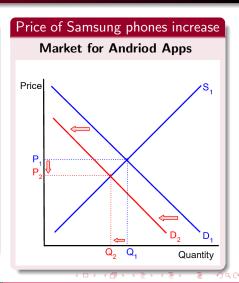
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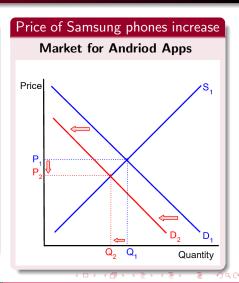
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Graphing Demand Curve Shifts

Substitutes and Complements

Normal and Inferior goods

Consumer Expectations

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Changes in Income

Normal good: a good whose demand increases when consumers' incomes increase.

Inferior good: a good whose demand decreases when consumers' incomes increase.

Can you think of examples of an inferior good?

Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

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Can you think of examples of an inferior good?

Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

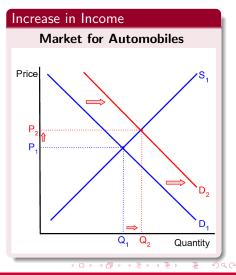
Changes in Income: Normal Goods

Income Effect on Normal Goods

Normal good: a good whose demand increases when consumers' incomes increase.

Examples: Most things, computers, automobiles, restaurant meals

If **income increases**, this will **increase demand** for a normal good



Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

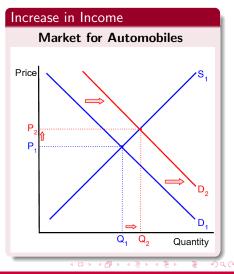
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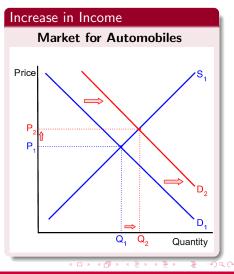
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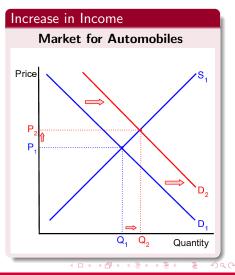
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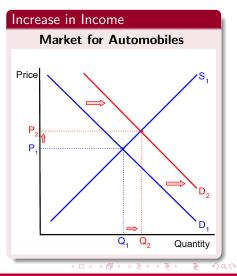
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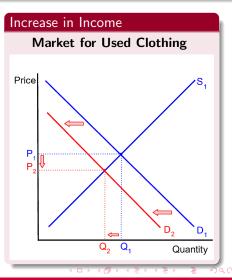


Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

Changes in Income: Inferior Goods

Income Effect on Inferior Goods

- **Inferior good**: a good whose demand **decreases** when consumers' incomes increase.
- Examples: Used clothing, Ramen noodles
- If **income increases**, this will **decrease demand** for an infrior good
- Eqm price decreases, quantity decreases



Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

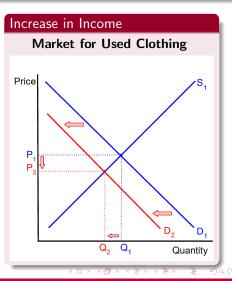
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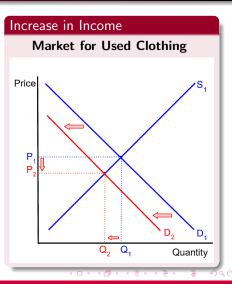
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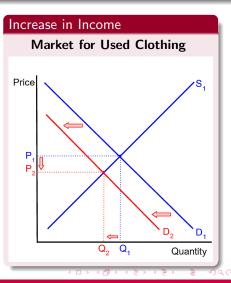
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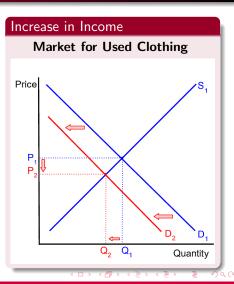
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Graphing Demand Curve Shifts Substitutes and Complements Normal and Inferior goods Consumer Expectations

Consumers Expect Price Increase

17/ 31

Expectation of Price Increase

If consumers expect a price will increase in the future, demand will increase in the present

The expectation can be well-informed or even unfounded speculation

Results in higher price, higher quantity

Self-fulfilling expectations are possible!

Expectation of a Price Increase Market for Gasoline on 9/11/2001 Price Ρ Ρ D Q Quantity

ECO 120: Global Macroeconomics

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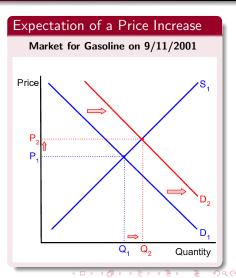
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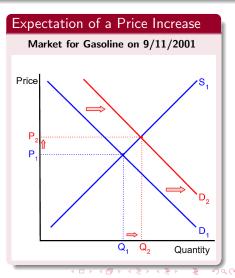
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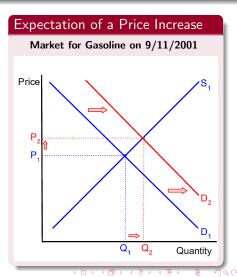
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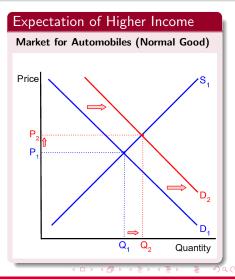
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Supply Curve Shifts

Graphing Supply Curve Shifts Improvements in Technology Increase in Production Costs Producer Expectations

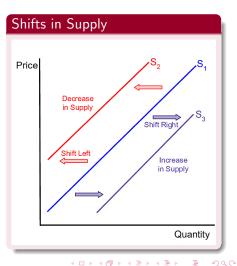
19/ 31

Shifts in Whole Supply Curve

When something *besides the price of the good* affects supply, there is a *change or shift in supply*.

Something that **increases** supply shifts the supply curve to the **right**

Something that **decreases** supply shifts the supply curve to the **left**



Supply Curve Shifts

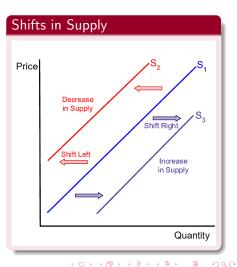
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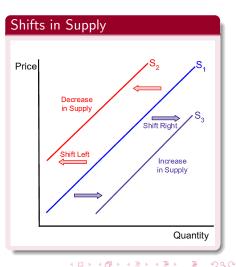
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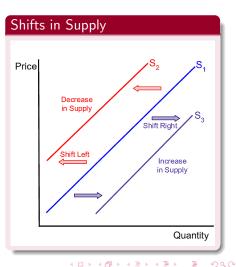
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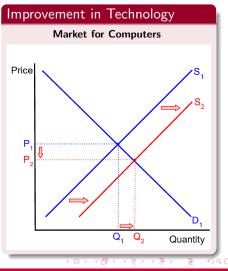
20/31

Improvements in Technology

Improvements in technology can make it possible to produce more

Improvements in technology can make production easier or less costly

Shift supply to the right



Graphing Supply Curve Shifts Improvements in Technology Increase in Production Costs Producer Expectations

Improvements in Technology

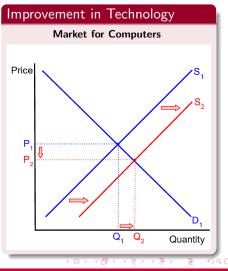
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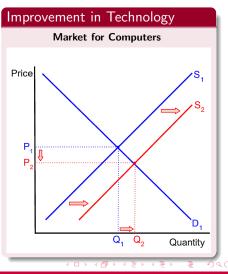
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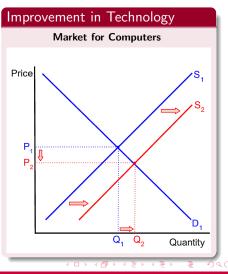
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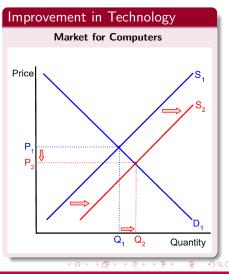
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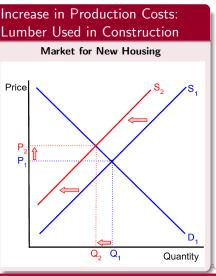
Increase in Production Costs

21/31

Increase in Production Costs

Any increase in production costs causes supply to shift to the left

For example: Increase in price of lumber for construction of new housing



Graphing Supply Curve Shifts Improvements in Technology Increase in Production Costs Producer Expectations

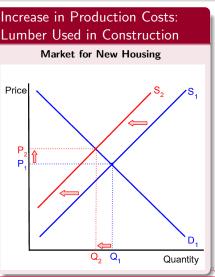
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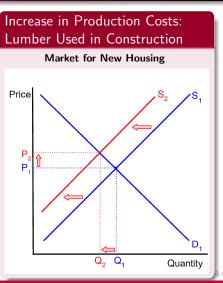
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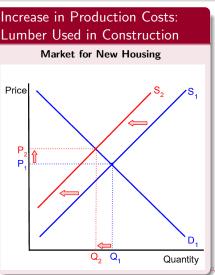
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Graphing Supply Curve Shifts Improvements in Technology Increase in Production Costs Producer Expectations

Producers Expect Higher Prices in Future

22/ 31

Producer Expectations

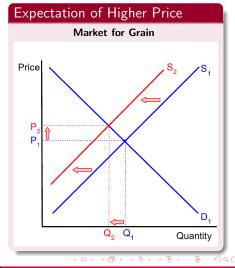
If producers expect an increase in prices, may hold back production or sales until prices are higher

Easier for goods than can be stored or warehoused

For example: Agriculture producers expects an increase in price of grain

Store grain to sell later, supplying less today, supply shifts left

Eqm quantity decreases, price increases



Graphing Supply Curve Shifts Improvements in Technology Increase in Production Costs Producer Expectations

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22/ 31

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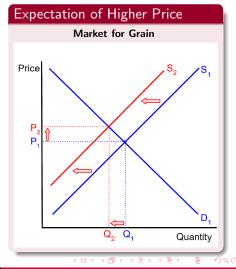
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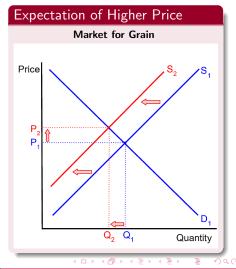
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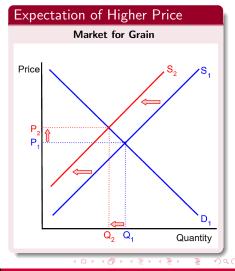
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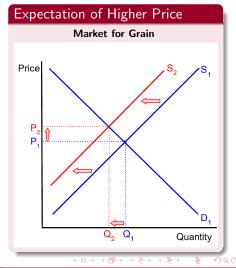
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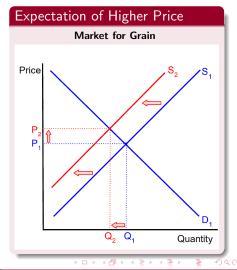
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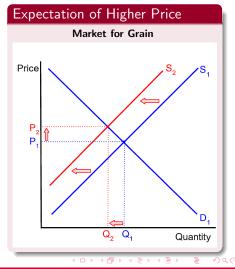
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Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Subsidy on Ethanol Production

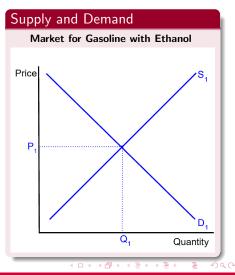
23/ 31

Scenario

Suppose the government increases the subsidy to gasoline producers for blending ethanol into gasoline.

Impact

Supply for gasoline with ethanol increases



Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Subsidy on Ethanol Production

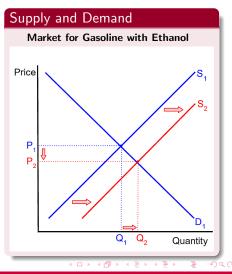
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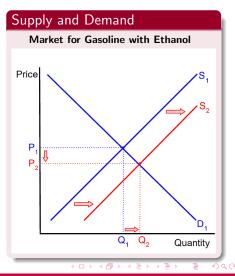
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Taxes and Subsidies Changes in Opinions and Preferences **Two Shifts** Scholar Spotlights

Taxes on Goods and Services

24/31

Scenario Supply and Demand Suppose the government increases the taxes on cigarettes. Price Ρ

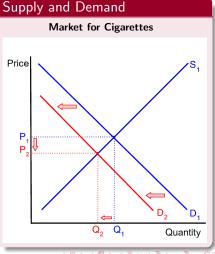
Market for Cigarettes D, Q, Quantity Dan

Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Taxes on Goods and Services

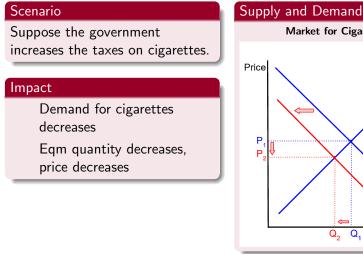
24/31

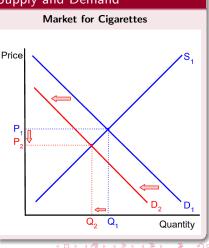
Scenario Suppose the government increases the taxes on cigarettes. Price Impact Demand for cigarettes decreases Ρ P



Taxes and Subsidies Changes in Opinions and Preferences **Two Shifts** Scholar Spotlights

Taxes on Goods and Services





Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Changes in Opinions and Preferences: Peloton

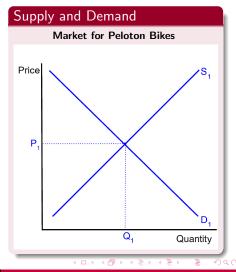
25/31

Scenario

Suppose Mr. Big dies while working out on his Peloton bike, and this leads people to think that Peloton bikes are dangerous.

Impact

Demand for Peloton bikes decreases



Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Changes in Opinions and Preferences: Peloton

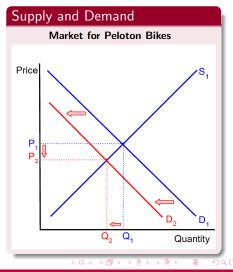
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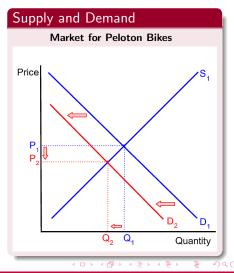
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Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Changes in Preferences: Christmas Trees

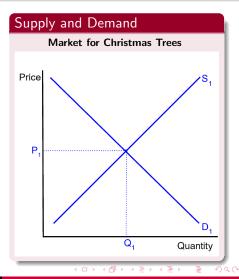
26/31

Scenario

After a difficult year in 2020, more people decided to celebrate the holiday season with real Christmas trees.

Impact

Demand for Christmas trees increases



Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

Changes in Preferences: Christmas Trees

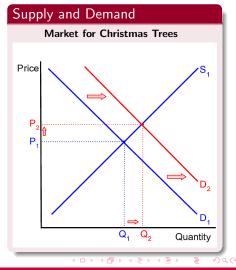
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Taxes and Subsidies Changes in Opinions and Preferences Two Shifts Scholar Spotlights

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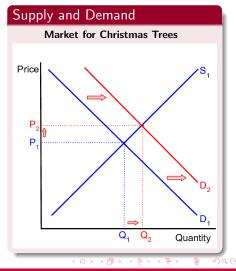
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Impact

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Taxes and Subsidies Changes in Opinions and Preferences Two Shifts

Scholar Spotlights

Changes in Supply and Demand: Christmas Trees

27/31

Scenario

During a very difficult recession in 2009-2010, many Christmas tree farmers did not invest in planting new trees. It takes about 10-11 years for trees to grow to typical room height.

Also, after a difficult year in 2020, more people decided to celebrate the holiday season with real Christmas trees.

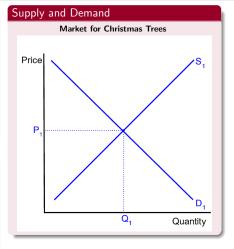
Impact

Demand increases

Supply also decreases

Equilibrium price increases

Change in equilibrium quantity is indeterminate



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Taxes and Subsidies Changes in Opinions and Preferences Two Shifts

Scholar Spotlights

Changes in Supply and Demand: Christmas Trees

27/31

Scenario

During a very difficult recession in 2009-2010, many Christmas tree farmers did not invest in planting new trees. It takes about 10-11 years for trees to grow to typical room height.

Also, after a difficult year in 2020, more people decided to celebrate the holiday season with real Christmas trees.

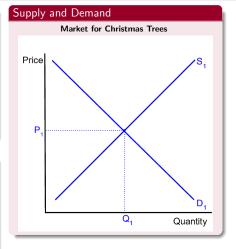
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Supply and Demand Market for Christmas Trees Price Ρ P Ω Quantity

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ECO 120: Global Macroeconomics

Supply and Demand

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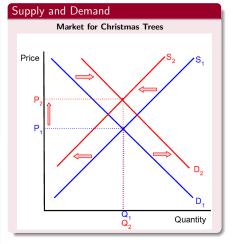
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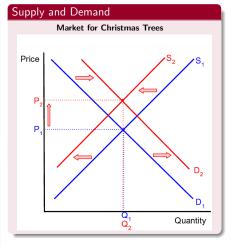
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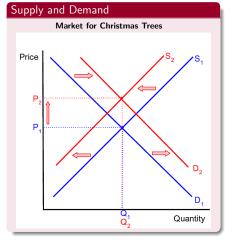
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Taxes and Subsidies Changes in Opinions and Preferences Two Shifts

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Changes in Supply and Demand: New Homes

28/31

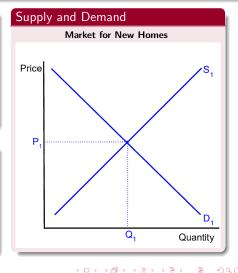
Scenario

Suppose that global supply chain problems cause a decrease in availability for construction materials

Suppose also that the country is in a recession and people have lower incomes

Impact on Market for Homes

Demand for new homes decreases Supply for new homes decreases Equilibrium quantity decreases Change in equilibrium price is indeterminate



Taxes and Subsidies Changes in Opinions and Preferences Two Shifts

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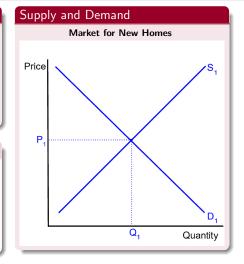
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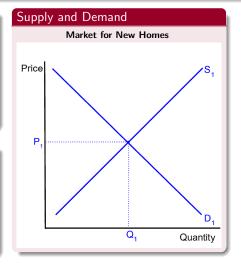
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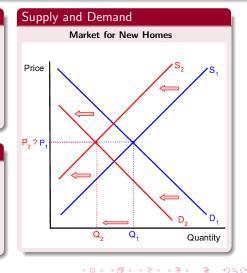
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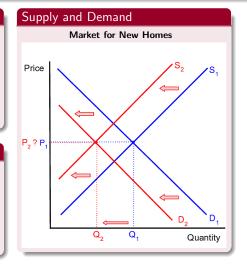
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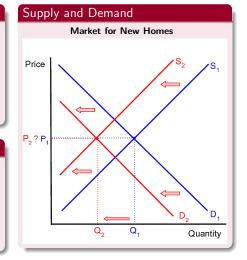
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Scholar Spotlight: Zsuzsanna Csereklyei

29/31

The effect of wind and solar power generation on wholesale electricity prices in Australia, *Energy Policy* August 2019. (with Songze Qu and Tihomir Ancev)

Wind, Solar, and Electricity Markets

Clean energy production and electricity prices have been rising together in Australia.

Estimated the impact: Increases in wind and solar energy production have led to decreases in electricity prices.

Increasing natural gas prices has led to increases in electricity prices.



Dr. Zsuzsanna Csereklyei Senior Lecturer School of Economics, Finance and Marketing RMIT University, Melbourne, Australia

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Scholar Spotlight: Sheida Teimouri

Housing Prices and Import Competition (with Joachim Zietz) Empirical Economics, July 2024.

Trade Liberalization with China

New trade agreement with China in October 2000 led to more imports of Chinese goods

Less demand for similar U.S. produced items led to less employment in some industries

Less employment \rightarrow less income \rightarrow less demand for housing

Housing prices fell 7% in *heavily trade-exposed areas*



Dr. Sheida Teimouri Associate Professor of Economics University of Wisconsin-La Crosse

Reading and Exercises

Reading and Exercises

Textbook: Demand, Module 5

- Textbook: Supply and Equilibrium, Module 6
- Textbook: Changes and Equilibrium, Module 7
- Canvas Quiz due Wed 11:59 PM.
- Multiple-choice, 10 questions, unlimited attempts allowed, only best score counts
- Homework/In-class Exercise due Friday 11:59 PM. We will work together in class on Thursday.
- **Next week!** Apply our knowledge of supply and demand to currencies: looking at behavior of exchange rates, imports, and exports (Module 47)

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