

Economics

Economics, Global Edition

Table of Contents

Cover

Half Title

Title Page

Copyright

Dedication

About The Authors

Brief Contents

Contents

Preface

Part 1: Introduction

Chapter 1: Economics: Foundations and Models

Does Apple Manufacture the iPhone in the United States?

1.1 Three Key Economic Ideas

People Are Rational

People Respond to Economic Incentives

Apply the Concept: Would a Congressional Bill Aimed at Increasing the Pay of Low-Wage Workers Backfire?

Optimal Decisions Are Made at the Margin

Solved Problem 1.1: The Marginal Benefit and Marginal Cost of Delivering Packages for Amazon

1.2 The Economic Problem That Every Society Must Solve

What Goods and Services Will Be Produced?

How Will the Goods and Services Be Produced?

Who Will Receive the Goods and Services Produced?

Centrally Planned Economies versus Market Economies

The Modern Mixed Economy

Efficiency and Equity

1.3 Economic Models

The Role of Assumptions in Economic Models

Forming and Testing Hypotheses in Economic Models

Positive and Normative Analysis

Dont Let This Happen to You: Dont Confuse Positive Analysis with Normative Analysis

Economics as a Social Science

Apply the Concept: What Can Economics Contribute to the Debate over Tariffs?



- 1.4 Microeconomics and Macroeconomics
- 1.5 Economic Skills and Economics as a Career
- 1.6 A Preview of Important Economic Terms

Conclusion

An Inside Look: Are Tariffs Bringing Manufacturing Jobs Back Home or Just Raising Prices?

*Chapter Summary and Problems

Appendix: Using Graphs and Formulas

Graphs of One Variable

Graphs of Two Variables

Slopes of Lines

Taking into Account More Than Two Variables on a Graph

Positive and Negative Relationships

Determining Cause and Effect

Are Graphs of Economic Relationships Always Straight Lines?

Slopes of Nonlinear Curves

Formulas

Formula for a Percentage Change

Formulas for the Areas of a Rectangle and a Triangle

Summary of Using Formulas

Problems and Applications

Chapter 2: Trade-offs, Comparative Advantage, and the Market System

Elon Musk and Tesla Motors Face a Trade-off

2.1 Production Possibilities Frontiers and Opportunity Costs

Graphing the Production Possibilities Frontier

Solved Problem 2.1: Analyzing Trade-offs Using a Production Possibilities Frontier for Tesla Motors

Increasing Marginal Opportunity Costs

Economic Growth

2.2 Comparative Advantage and Trade

Specialization and Gains from Trade

Absolute Advantage versus Comparative Advantage

Comparative Advantage and the Gains from Trade

Dont Let This Happen to You: Dont Confuse Absolute Advantage and Comparative Advantage

Solved Problem 2.2: Comparative Advantage and the Gains from Trade

Apply the Concept: Comparative Advantage, Opportunity Cost, and Housework

2.3 The Market System

The Circular Flow of Income

The Gains from Free Markets

The Market Mechanism

Apply the Concept: A Story of the Market System in Action: How Do You Make an iPad?

The Role of the Entrepreneur in the Market System



The Legal Basis of a Successful Market System

Apply the Concept: What Is Socialism?

Conclusion

An Inside Look: A Plug-in Porsche?

Chapter Summary and Problems

Chapter 3: Where Prices Come From: The Interaction of Demand and Supply

A Basketball Player Takes a TumbleAnd So Does Nike

3.1 The Demand Side of the Market

Demand Schedules and Demand Curves

The Law of Demand

What Explains the Law of Demand?

Holding Everything Else Constant: The Ceteris Paribus Condition

Variables That Shift Market Demand

Apply the Concept: Millennials and Generation Z Shake Up the Markets for Groceries, Big Macs, and Running Shoes

A Change in Demand versus a Change in Quantity Demanded

Apply the Concept: Forecasting the Demand for Athletic Shoes

3.2 The Supply Side of the Market

Supply Schedules and Supply Curves

The Law of Supply

Variables That Shift Market Supply

Apply the Concept: Fracking, the U.S. Oil Boom, and Expected Oil Prices

A Change in Supply versus a Change in Quantity Supplied

3.3 Market Equilibrium: Putting Demand and Supply Together

How Markets Eliminate Surpluses and Shortages

Demand and Supply Both Count

Solved Problem 3.3: Demand and Supply Both Count: A Tale of Two Letters

3.4 The Effect of Demand and Supply Shifts on Equilibrium

The Effect of Shifts in Demand on Equilibrium

The Effect of Shifts in Supply on Equilibrium

The Effect of Shifts in Demand and Supply over Time

Apply the Concept: Higher Demand for CobaltBut Lower Prices?

Solved Problem 3.4: Can We Predict Changes in the Price and Quantity of Merino Wool?

Shifts in a Curve versus Movements along a Curve

Dont Let This Happen to You: Remember: A Change in a Goods Price Does Not Cause the Demand or Supply Curve to Shift

Conclusion

An Inside Look: If the Shoe Fits . . . Print It?

Chapter Summary and Problems

Chapter 4: Economic Efficiency, Government Price Setting, and Taxes



What Do Food Riots in Venezuela and the Rise of Uber in the United States Have in Common?

4.1 Consumer Surplus and Producer Surplus

Consumer Surplus

Apply the Concept: The Consumer Surplus from Uber

Producer Surplus

What Consumer Surplus and Producer Surplus Measure

4.2 The Efficiency of Competitive Markets

Marginal Benefit Equals Marginal Cost in Competitive Equilibrium

Economic Surplus

Deadweight Loss

Economic Surplus and Economic Efficiency

4.3 Government Intervention in the Market: Price Floors and Price Ceilings

Price Floors: Government Policy in Agricultural Markets

Apply the Concept: Price Floors in Labor Markets: The Debate over Minimum Wage Policy

Price Ceilings: Government Rent Control Policy in Housing Markets

Dont Let This Happen to You: Dont ConfuseScarcity with Shortage

Black Markets and Peer-to-Peer Sites

Solved Problem 4.3: Whats the Economic Effect of a Black Market in Renting Apartments?

The Results of Government Price Controls: Winners, Losers, and Inefficiency

Apply the Concept: Price Controls Lead to Economic Crisis in Venezuela

Positive and Normative Analysis of Price Ceilings and Price Floors

4.4 The Economic Effect of Taxes

The Effect of Taxes on Economic Efficiency

Tax Incidence: Who Actually Pays a Tax?

Solved Problem 4.4: Who Bears the Burden of the Seattle Beverage Tax?

Apply the Concept: Is the Burden of the Social Security Tax Really Shared Equally between Workers and Firms?

Conclusion

An Inside Look: Uber Fights to Repeal New York City Restrictions

Chapter Summary and Problems

Appendix: Quantitative Demand and Supply Analysis

Demand and Supply Equations

Calculating Consumer Surplus and Producer Surplus

Review Questions

Problems and Applications

Part 2: Markets in Action: Policy and Applications

Chapter 5: Externalities, Environmental Policy, and Public Goods

Are NextEra Energy and Green Power the Future?

5.1 Externalities and Economic Efficiency



The Effect of Externalities

Externalities and Market Failure

What Causes Externalities?

5.2 Private Solutions to Externalities: The Coase Theorem

The Economically Efficient Level of Pollution Reduction

Apply the Concept: The Clean Air Act: How a Government Policy Reduced Infant Mortality

The Basis for Private Solutions to Externalities

Dont Let This Happen to You: Remember That Its the Net Benefit That Counts

Do Property Rights Matter?

The Problem of Transactions Costs

The Coase Theorem

Apply the Concept: How Can You Defend Your Knees on a Plane Flight?

5.3 Government Policies to Deal with Externalities

Imposing a Tax When There Is a Negative Externality

Providing a Subsidy When There Is a Positive Externality

Apply the Concept: Should the Government Tax Cigarettes and Soda?

Solved Problem 5.3: Are Congestion Fees the Answer to Big City Traffic Problems?

Command-and-Control versus Market-Based Approaches

The End of the Sulfur Dioxide Cap-and-Trade System

Are Tradable Emission Allowances Licenses to Pollute?

Apply the Concept: Does the United States Need a Green New Deal?

5.4 Four Categories of Goods

The Demand for a Public Good

The Optimal Quantity of a Public Good

Solved Problem 5.4: Determining the Optimal Level of Public Goods

Common Resources

Conclusion

Chapter Summary and Problems

Chapter 6: Elasticity: The Responsiveness of Demand and Supply

Do Soda Taxes Work?

6.1 The Price Elasticity of Demand and Its Measurement

Measuring the Price Elasticity of Demand

Elastic Demand and Inelastic Demand

An Example of Calculating Price Elasticities

The Midpoint Formula

Solved Problem 6.1: Calculating the Price Elasticity of Demand

When Demand Curves Intersect, the Flatter Curve Is More Elastic

Polar Cases of Perfectly Inelastic and Perfectly Elastic Demand

Dont Let This Happen to You: Dont Confuse Inelastic with Perfectly Inelastic

6.2 The Determinants of the Price Elasticity of Demand

Availability of Close Substitutes



Passage of Time

Luxuries versus Necessities

Definition of the Market

Share of a Good in a Consumers Budget

Some Estimated Price Elasticities of Demand

6.3 The Relationship between Price Elasticity of Demand and Total Revenue

Elasticity and Revenue with a Linear Demand Curve

Solved Problem 6.3: Price and Revenue Dont Always Move in the Same Direction

Apply the Concept: Amazon and Netflix Test the Price Elasticity of Demand for Their Services

6.4 Other Demand Elasticities

Cross-Price Elasticity of Demand

Income Elasticity of Demand

Apply the Concept: Price Elasticity, Cross-Price Elasticity, and Income Elasticity in the Market for Alcoholic Beverages

6.5 Using Elasticity to Analyze the Disappearing Family Farm

Solved Problem 6.5: Using Price Elasticity to Analyze the Effects of a Soda Tax

6.6 The Price Elasticity of Supply and Its Measurement

Measuring the Price Elasticity of Supply

Determinants of the Price Elasticity of Supply

Apply the Concept: Why Are Oil Prices So Unstable?

Polar Cases of Perfectly Elastic and Perfectly Inelastic Supply

Using Price Elasticity of Supply to Predict Changes in Price

Conclusion

Chapter Summary and Problems

Chapter 7: The Economics of Health Care

Goodbye to Blue Cross and Blue Shield?

7.1 The Improving Health of People in the United States

Changes over Time in U.S. Health

Reasons for Long-Run Improvements in U.S. Health

7.2 Health Care around the World

The U.S. Health Care System

Apply the Concept: The Increasing Importance of Health Care in the U.S. Economy

The Health Care Systems of Canada, Japan, and the United Kingdom

Comparing Health Care Outcomes around the World

How Useful Are Cross-Country Comparisons of Health Outcomes?

7.3 Information Problems and Externalities in the Market for Health Care

Adverse Selection and the Market for Lemons

Asymmetric Information in the Market for Health Insurance

Dont Let This Happen to You: Dont Confuse Adverse Selection with Moral Hazard

Externalities in the Market for Health Care

Should the Government Run the Health Care System?

7.4 The Debate over Health Care Policy in the United States



The Rising Cost of Health Care

Apply the Concept: Are U.S. Firms Handicapped by Paying for Their Employees Health Insurance?

Explaining Increases in Health Care Spending

The Continuing Debate over Health Care Policy

Market-Based Reforms

Apply the Concept: Medicare for All?

Conclusion

Chapter Summary and Problems

Part 3: Firms in the Domestic and International Economies

Chapter 8: Firms, the Stock Market, and Corporate Governance

Investing in Lyft, a Company That Has Never Earned a Profit?

8.1 Types of Firms

Who Is Liable? Limited and Unlimited Liability

Corporations Earn the Majority of Revenue and Profits

Apply the Concept: Why Are Fewer Young People Starting Businesses?

The Structure of Corporations and the Principal Agent Problem

8.2 How Firms Raise Funds

Sources of External Funds

Apply the Concept: The Rating Game: Are Federal, State, or City Governments Likely to Default on Their Bonds?

Stock and Bond Markets Provide Capitaland Information

The Fluctuating Stock Market

Dont Let This Happen to You: When Lyft Shares Are Sold, Lyft Doesnt Get the Money

Why Is It So Hard to Beat the Market?

Apply the Concept: Why Would Anyone Buy Lyfts Stock?

Solved Problem 8.2: Why Does Warren Buffett Like Mutual Funds?

8.3 Using Financial Statements to Evaluate a Corporation

The Income Statement

The Balance Sheet

Problems in Corporate Governance

Apply the Concept: Should Investors Worry about Corporate Governance at Lyft?

Conclusion

Chapter Summary and Problems

Appendix: Using Present Value

The Concept of Present Value

Solved Problem 8A.1: How to Receive Your Contest Winnings

Using Present Value to Calculate Bond Prices

Using Present Value to Calculate Stock Prices

A Simple Formula for Calculating Stock Prices

Review Questions

Problems and Applications



Online Appendix: Income Statements and Balance Sheets

Chapter 9: Comparative Advantage and the Gains from International Trade

Being Careful What You Wish For: Trade Wars and Whirlpool

9.1 The United States in the International Economy

The Importance of Trade to the U.S. Economy

U.S. International Trade in a World Context

9.2 Comparative Advantage in International Trade

A Brief Review of Comparative Advantage

Comparative Advantage and Absolute Advantage

9.3 How Countries Gain from International Trade

Increasing Consumption through Trade

Solved Problem 9.3: The Gains from Trade

Why Dont We See Complete Specialization?

Does Anyone Lose as a Result of International Trade?

Dont Let This Happen to You: Remember That Trade Creates Both Winners and Losers

Apply the Concept: Who Gains and Who Loses from U.S. Trade with China?

Where Does Comparative Advantage Come From?

9.4 Government Policies That Restrict International Trade

Tariffs

Quotas and Voluntary Export Restraints

Measuring the Economic Effect of the Sugar Quota

Solved Problem 9.4: Measuring the Economic Effect of a Quota

The High Cost of Preserving Jobs with Tariffs and Quotas

Apply the Concept: Smoot-Hawley, the Politics of Tariffs, and the Cost of Protecting a Vanishing Industry

Gains from Unilateral Elimination of Tariffs and Quotas

Other Barriers to Trade

9.5 The Debate over Trade Policies and Globalization

Why Do Some People Oppose the World Trade Organization?

Dumping

Apply the Concept: The Trade War of 2018

Positive versus Normative Analysis (Once Again)

Conclusion

Chapter Summary and Problems

Part 4: Microeconomic Foundations: Consumers and Firms

Chapter 10: Consumer Choice and Behavioral Economics

What Happened to Sears and the Other Department Stores?

10.1 Utility and Consumer Decision Making

An Overview of the Economic Model of Consumer Behavior

Utility



The Principle of Diminishing Marginal Utility

The Rule of Equal Marginal Utility per Dollar Spent

Solved Problem 10.1: Finding the Optimal Level of Consumption

What if the Rule of Equal Marginal Utility per Dollar Does Not Hold?

Dont Let This Happen to You: Equalize Marginal Utilities per Dollar

The Income Effect and Substitution Effect of a Price Change

Dont Let This Happen to You: The Income Effect Doesnt Involve an Increase in Money Income

10.2 Where Demand Curves Come From

Apply the Concept: Are There Any Upward-Sloping Demand Curves in the Real World?

10.3 Social Influences on Decision Making

The Effects of Celebrity Endorsements

Network Externalities

Does Fairness Matter?

Apply the Concept: Taylor Swift Tries to Please Fans and Make Money

Solved Problem 10.3: Why Doesnt Tesla Charge Its Employees to Park Their Cars?

10.4 Behavioral Economics: Do People Make Rational Choices?

Pitfalls in Decision Making

Apply the Concept: Sunk Costs and Sports Teams

Nudges: Using Behavioral Economics to Guide Behavior

The Behavioral Economics of Shopping

Apply the Concept: Trying to Use the Apple Approach to Save J.C. Penney

Conclusion

Chapter Summary and Problems

Appendix: Using Indifference Curves and Budget Lines to Understand Consumer Behavior

Consumer Preferences

Indifference Curves

The Slope of an Indifference Curve

Can Indifference Curves Ever Cross?

The Budget Constraint

Choosing the Optimal Consumption of Pizza and Coke

Apply the Concept: Apple Determines the Optimal Mix of iPhone Features

Deriving the Demand Curve

Solved Problem 10A.1: When Does a Price Change Make a Consumer Better Off?

The Income Effect and the Substitution Effect of a Price Change

How a Change in Income Affects Optimal Consumption

The Slope of the Indifference Curve, the Slope of the Budget Line, and the Rule of Equal Marginal Utility per Dollar Spent

The Rule of Equal Marginal Utility per Dollar Spent Revisited

Review Questions

Problems and Applications

Chapter 11: Technology, Production, and Costs



Fracking Lowers the Cost of Oil and Revolutionizes the World Market

11.1 Technology: An Economic Definition

Apply the Concept: Oil Roughnecks Encounter Robots and Drones

11.2 The Short Run and the Long Run in Economics

The Difference between Fixed Costs and Variable Costs

Apply the Concept: Fixed Costs in the Publishing Industry

Implicit Costs versus Explicit Costs

The Production Function

A First Look at the Relationship between Production and Cost

11.3 The Marginal Product of Labor and the Average Product of Labor

The Law of Diminishing Returns

Graphing Production

Apply the Concept: Adam Smiths Famous Account of the Division of Labor in a Pin Factory

The Relationship between Marginal Product and Average Product

An Example of Marginal and Average Values: College Grades

11.4 The Relationship between Short-Run Production and Short-Run Cost

Marginal Cost

Why Are the Marginal and Average Cost Curves U Shaped?

Solved Problem 11.4: Calculating Marginal Cost and Average Total Cost

11.5 Graphing Cost Curves

11.6 Costs in the Long Run

Economies of Scale

Long-Run Average Cost Curves for Automobile Factories

Solved Problem 11.6: Using Long-Run Average Cost Curves to Understand a Business Merger

Apply the Concept: The Colossal River Rouge: Diseconomies of Scale at Ford Motor Company

Dont Let This Happen to You: Dont Confuse Diminishing Returns with Diseconomiesof Scale

Conclusion

Chapter Summary and Problems

Online Appendix: Using Isoquants and Isocost Lines to Understand Production and Cost

Part 5: Market Structure and Firm Strategy

Chapter 12: Firms in Perfectly CompetitiveMarkets

Are Cage-Free Eggs the Road to Riches?

12.1 Perfectly Competitive Markets

A Perfectly Competitive Firm Cannot Affect the Market Price

The Demand Curve for the Output of a Perfectly Competitive Firm

Dont Let This Happen to You: Dont Confuse the Demand Curve for Farmer Parkers Wheat with the Market Demand Curve for Wheat

12.2 How a Firm Maximizes Profit in a Perfectly Competitive Market

Revenue for a Firm in a Perfectly Competitive Market

Determining the Profit-Maximizing Level of Output



12.3 Illustrating Profit or Loss on the Cost Curve Graph

Showing Profit on a Graph

Solved Problem 12.3: Determining Profit-Maximizing Price and Quantity

Dont Let This Happen to You: Remember That Firms Maximize Their Total Prof it, Not Their Prof it per Unit

Illustrating When a Firm Is Breaking Evenor Operating at a Loss

12.4 Deciding Whether to Produce or to Shut Down in the Short Run

The Supply Curve of a Firm in the Short Run

Apply the Concept: What Does Break Even Mean in the Oil Fields?

Solved Problem 12.4: When to Shut Down a Farm

The Market Supply Curve in a Perfectly Competitive Industry

12.5 If Everyone Can Do It, You Cant Make Money at It: The Entry and Exit of Firms in the Long

Economic Profit and the Entry or Exit Decision

Long-Run Equilibrium in a Perfectly Competitive Market

The Long-Run Supply Curve in a Perfectly Competitive Market

Apply the Concept: The Winding Path to Long-Run Equilibrium in the Egg Market

Increasing-Cost and Decreasing-Cost Industries

12.6 Perfect Competition and Economic Efficiency

Productive Efficiency

Solved Problem 12.6: How Productive Efficiency Benefits Consumers

Allocative Efficiency

Conclusion

Chapter Summary and Problems

Chapter 13: Monopolistic Competition: The Competitive Model in a More Realistic Setting

The Coffee Industry: From Supermarket Cans to Third Wave Coffeehouse

13.1 Demand and Marginal Revenue for a Firm in a Monopolistically Competitive Market

The Demand Curve for a Monopolistically Competitive Firm

Marginal Revenue for a Firm with a Downward-Sloping Demand Curve

13.2 How a Monopolistically Competitive Firm Maximizes Profit in the Short Run

Solved Problem 13.2: Does Minimizing Cost Maximize Profit at Apple?

13.3 What Happens to Profits in the Long Run?

How Does the Entry of New Firms Affect the Profits of Existing Firms?

Dont Let This Happen to You: Dont Confuse Zero Economic Profit with Zero Accounting Profit

Apply the Concept: Can Third Wave Coffeehouses Remain Profitable?

Is Zero Economic Profit Inevitable in the Long Run?

Solved Problem 13.3: The Profitability of Amazon Go

13.4 Comparing Monopolistic Competition and Perfect Competition

Excess Capacity under Monopolistic Competition

Is Monopolistic Competition Inefficient?

How Consumers Benefit from Monopolistic Competition



Apply the Concept: Are Ghost and Virtual Restaurants the Wave of the Future?

13.5 How Marketing Differentiates Products

Brand Management

Advertising

Defending a Brand Name

13.6 What Makes a Firm Successful?

Apply the Concept: Is Being the First Firm in the Market a Key to Success?

Conclusion

Chapter Summary and Problems

Chapter 14: Oligopoly: Firms in LessCompetitive Markets

Apple, Spotify, and the Music Streaming Revolution

14.1 Oligopoly and Barriers to Entry

Barriers to Entry

Apply the Concept: Are Unlicensed Yoga Instructors a Menace to Public Health?

14.2 Game Theory and Oligopoly

A Duopoly Game: Price Competition between Two Firms

Firm Behavior and the Prisoners Dilemma

Dont Let This Happen to You: Dont Misunderstand Why Each Firm Ends Up Charging a Price of \$9.99

Solved Problem 14.2: Is Offering a College Student Discount a Prisoners Dilemma for Apple and

Spotify?

Can Firms Escape the Prisoners Dilemma?

Apply the Concept: Are the Big Four Airlines Colluding?

Cartels: The Case of OPEC

14.3 Sequential Games and Business Strategy

Deterring Entry

Solved Problem 14.3: Is Deterring EntryAlways a Good Idea?

Bargaining

14.4 The Five Competitive Forces Model

Competition from Existing Firms

The Threat from Potential Entrants

Competition from Substitute Goods or Services

The Bargaining Power of Buyers

The Bargaining Power of Suppliers

Apply the Concept: Do Large Firms Live Forever?

Conclusion

Chapter Summary and Problems

Chapter 15: Monopoly and Antitrust Policy

The Monopoly in Your Mailbox

15.1 Is Any Firm Ever Really a Monopoly?

Apply the Concept: Has the USPS Outlived Its Usefulness?



15.2 Where Do Monopolies Come From?

Government Action Blocks Entry

Apply the Concept: Does Hasbro Have a Monopoly on Monopoly?

Control of a Key Resource

Apply the Concept: Are Diamond Profits Forever? The De Beers Diamond Monopoly

Network Externalities

Natural Monopoly

15.3 How Does a Monopoly Choose Price and Output?

Marginal Revenue Once Again

Profit Maximization for a Monopolist

Solved Problem 15.3: Finding the Profit-Maximizing Price and Output for a Cable Monopoly

Dont Let This Happen to You: Dont Assume That Charging a Higher Price Is Always More Prof itable for a Monopolist

15.4 Does Monopoly Reduce Economic Efficiency?

Comparing Monopoly and Perfect Competition

Measuring the Efficiency Losses from Monopoly

How Large Are the Efficiency Losses Due to Monopoly?

Market Power and Technological Change

15.5 Price Discrimination: Charging Different Prices for the Same Product

The Requirements for Successful Price Discrimination

An Example of Price Discrimination

Dont Let This Happen to You: Dont Confuse Price Discrimination with Other Types of Discrimination

Solved Problem 15.5: How Apple Uses Price Discrimination to Increase Profits

Airlines: The Kings of Price Discrimination

Big Data and Dynamic Pricing

Perfect Price Discrimination

Price Discrimination across Time

Can Price Discrimination Be Illegal?

15.6 Government Policy toward Monopoly

Antitrust Laws and Antitrust Enforcement

Mergers: The Trade-off between Market Power and Efficiency

The Department of Justice and FTC Merger Guidelines and the Herfindahl-Hirschman Index of Concentration

Regulating Natural Monopolies

Apply the Concept: Should the Justice Department Break Up Google, Amazon, and Facebook?

Conclusion

Chapter Summary and Problems

Part 6: Labor Markets, Public Choice, and the Distribution of Income

Chapter 16: The Markets for Labor and Other Factors of Production

Great Hamburger? Thank a Robot

16.1 The Demand for Labor



The Marginal Revenue Product of Labor

Solved Problem 16.1: Hiring Decisions by a Firm That Is a Price Maker

The Market Demand Curve for Labor

Factors That Shift the Market Demand Curve for Labor

16.2 The Supply of Labor

The Market Supply Curve of Labor

Factors That Shift the Market Supply Curveof Labor

16.3 Equilibrium in the Labor Market

The Effect on Equilibrium Wages of a Shift in Labor Demand

Apply the Concept: Does It Matter Which College You Attend?

The Effect of Immigration on the U.S. Labor Market

Apply the Concept: Will You Compete with a Robot for a JobOr Work with One?

16.4 Explaining Differences in Wages

Dont Let This Happen to You: Remember That Prices and Wages Are Determined at the Margin

Apply the Concept: Technology and the Earnings of Superstars

Compensating Differentials

Discrimination

Solved Problem 16.4: Is Passing Comparable Worth Legislation a Good Way to Close the Gap between Mens and Womens Pay?

Apply the Concept: Does Greg Have an Easier Time Finding a Job Than Jamal?

Labor Unions

16.5 Personnel Economics

Should Workers Pay Depend on How Much They Work or on How Much They Produce?

Apply the Concept: A Better Way to Sell Contact Lenses

Other Considerations in Setting Compensation Systems

16.6 The Markets for Capital and Natural Resources

The Market for Capital

The Market for Natural Resources

Monopsony

The Marginal Productivity Theory of Income Distribution

Conclusion

Chapter Summary and Problems

Chapter 17: Public Choice, Taxes, and the Distribution of Income

Should Your Small Business Be Taxed Like Apple?

17.1 Public Choice

How Do We Know the Public Interest? Models of Voting

Government Failure?

Is Government Regulation Necessary?

17.2 The Tax System

An Overview of the U.S. Tax System

Progressive and Regressive Taxes



Apply the Concept: Which Groups Pay the Most in Federal Taxes?

Marginal and Average Income Tax Rates

The Corporate Income Tax

International Comparison of Corporate Income Taxes

Evaluating Taxes

Apply the Concept: Should the Federal Government Begin to Tax Wealth?

17.3 Tax Incidence Revisited: The Effect of Price Elasticity

Dont Let This Happen to You: Dont Confuse Who Pays a Tax with Who Bears the Burden of the Tax

Apply the Concept: Do Corporations Really Bear the Burden of the Federal Corporate Income Tax?

Solved Problem 17.3: The Effect of Price Elasticity on the Excess Burden of a Tax

17.4 Income Distribution and Poverty

Measuring the Income Distribution and Measuring Poverty

Showing the Income Distribution with a Lorenz Curve

Problems in Measuring Poverty and the Distribution of Income

Explaining Income Inequality

Policies to Reduce Income Inequality

Apply the Concept: Who Are the 1 Percent, and How Do They Earn Their Incomes?

Poverty around the World

Conclusion

Chapter Summary and Problems

Part 7: Macroeconomic Foundations and Long-Run Growth

Chapter 18: GDP: Measuring Total Production and Income

Politics, Macroeconomics, and General Motors

18.1 Gross Domestic Product Measures Total Production

Measuring Total Production: Gross Domestic Product

Solved Problem 18.1: Calculating GDP

Production, Income, and the Circular-Flow Diagram

Components of GDP

Dont Let This Happen to You: Remember What Economists Mean by Investment

An Equation for GDP and Some Actual Values

Apply the Concept: Microsofts Steve Ballmer Uses the U.S. Constitution to Reorganize Government Data

Measuring GDP Using the Value-Added Method

18.2 Does GDP Measure What We Want It to Measure?

Shortcomings in GDP as a Measure of Total Production

Apply the Concept: Why Do Many Developing Countries Have Such Large Underground Economies?

Shortcomings of GDP as a Measure of Well-Being

18.3 Real GDP versus Nominal GDP

Calculating Real GDP

Solved Problem 18.3: Calculating Real GDP

Comparing Real GDP and Nominal GDP



The GDP Deflator

18.4 Other Measures of Total Production and Total Income

Gross National Product

National Income

Personal Income

Disposable Personal Income

The Division of Income

Apply the Concept: Should We Pay More Attention to Gross Domestic Income?

Conclusion

Chapter Summary and Problems

Chapter 19: Unemployment and Inflation

Former Inmates and Stoughton Trailers Meet in a High-Pressure Economy

19.1 Measuring the Unemployment Rate, the Labor Force Participation Rate, and the EmploymentPopulation Ratio

The Household Survey

Solved Problem 19.1: What Happens if the BLS Includes the Military?

Problems with Measuring the Unemployment Rate

Unemployment Rates for Different Groups

How Long Are People Typically Unemployed?

Trends in Labor Force Participation

Apply the Concept: How Large Is the Potential U.S. Labor Force?

The Establishment Survey: Another Measure of Employment

Revisions in the Establishment Survey Employment Data: How Bad Was the 20072009 Recession?

Job Creation and Job Destruction over Time

19.2 Types of Unemployment

Frictional Unemployment and Job Search

Structural Unemployment

Cyclical Unemployment

Full Employment

Apply the Concept: Will Advances in Information Technology Permanently Increase Structural Unemployment?

19.3 Explaining Unemployment

Government Policies and the Unemployment Rate

Labor Unions

Efficiency Wages

19.4 Measuring Inflation

The Consumer Price Index

Is the CPI Accurate?

Dont Let This Happen to You: Dont Miscalculate the Inflation Rate

The Producer Price Index

19.5 Using Price Indexes to Adjust for the Effects of Inflation



Solved Problem 19.5: What Has Been Happening to Real Wages in the United States?

19.6 Nominal Interest Rates versus Real Interest Rates

19.7 Does Inflation Impose Costs on the Economy?

Inflation Affects the Distribution of Income

The Problem with Anticipated Inflation

The Problem with Unanticipated Inflation

Apply the Concept: Whats So Bad about Falling Prices?

Conclusion

Chapter Summary and Problems

Chapter 20: Economic Growth, the Financial System, and Business Cycles

Millennials Experience the iPhone, Snapchat, . . . and the Great Recession

20.1 Long-Run Economic Growth

Apply the Concept: The Connection between Economic Prosperity and Health

Calculating Growth Rates and the Rule of 70

What Determines the Rate of Long-Run Growth?

Solved Problem 20.1: Where Does Productivity Come From?

Apply the Concept: Can India Sustain Its Rapid Growth?

Potential GDP

20.2 Saving, Investment, and the Financial System

An Overview of the Financial System

The Macroeconomics of Saving and Investment

The Market for Loanable Funds

Apply the Concept: Ebenezer Scrooge: Accidental Promoter of Economic Growth?

Solved Problem 20.2: Are Future Budget Deficits a Threat to the Economy?

20.3 The Business Cycle

Some Basic Business Cycle Definitions

How Do We Know When the Economy Is in a Recession?

What Happens during the Business Cycle?

Dont Let This Happen to You: Dont Confuse the Price Level and the Inflation Rate

Has the U.S. Economy Returned to Stability?

Conclusion

Chapter Summary and Problems

Chapter 21: Long-Run Economic Growth: Sources and Policies

Technological Change, Creative Destruction, and Rising Living Standards

21.1 Economic Growth over Time and around the World

Economic Growth from 1,000,000 b.c.e. to the Present

Apply the Concept: Why Did the Industrial Revolution Begin in England?

Small Differences in Growth Rates Are Important

The Problem with Slow Economic Growth

Dont Let This Happen to You: Dont Confuse the Average Annual Percentage Change with the Total



Percentage Change

The Variation in per Capita Income around the World

Is Income All That Matters?

21.2 What Determines How Fast Economies Grow?

The Per-Worker Production Function

Which Is More Important for Economic Growth: More Capital or Technological Change?

Technological Change: The Key to Sustaining Economic Growth

Apply the Concept: What Explains the Economic Failure of the Soviet Union?

Solved Problem 21.2: Using the Economic Growth Model to Analyze the Failure of the Soviet Economy

New Growth Theory

Joseph Schumpeter and Creative Destruction

21.3 Economic Growth in the United States

Economic Growth in the United States since 1950

Is the United States Headed for a Long Period of Slow Growth?

21.4 Why Isnt the Whole World Rich?

Catch-up: Sometimes but Not Always

Solved Problem 21.4: The Economic Growth Models Prediction of Catch-up

Why Havent Most Western European Countries, Canada, and Japan Caught Up to the United States?

Why Dont More Low-Income Countries Experience Rapid Growth?

Apply the Concept: Why Hasnt Mexico Grown as Fast as China?

The Benefits of Globalization

21.5 Growth Policies

Enhancing Property Rights and the Rule of Law

Apply the Concept: Will Chinas Standard of Living Ever Exceed That of the United States?

Improving Health and Education

Policies That Promote Technological Change

Policies That Promote Saving and Investment

Apply the Concept: Is Sub-Saharan Africa on the Road to Economic Growth?

Is Economic Growth Good or Bad?

Conclusion

Chapter Summary and Problems

Part 8: Short-Run Fluctuations

Chapter 22: Aggregate Expenditure and Output in the Short Run

Glamping and Airstreams Ride on the Business Cycle

22.1 The Aggregate Expenditure Model

Aggregate Expenditure

The Difference between Planned Investment and Actual Investment

Macroeconomic Equilibrium

Adjustments to Macroeconomic Equilibrium

22.2 Determining the Level of Aggregate Expenditure in the Economy



Consumption

The Volatility of Consumer Spending on Durables

The Relationship between Consumption and National Income

Income, Consumption, and Saving

Solved Problem 22.2: Calculating the Marginal Propensity to Consume and the Marginal Propensity to

Planned Investment

Apply the Concept: Is Student Loan Debt Causing Fewer Young People to Buy Houses?

Government Purchases

Net Exports

Apply the Concept: The iPhone Is Made in China . . . or Is It?

22.3 Graphing Macroeconomic Equilibrium

Showing a Recession on the 45°-Line Diagram

The Important Role of Inventories

A Numerical Example of Macroeconomic Equilibrium

Dont Let This Happen to You: Dont Confuse Aggregate Expenditure with Consumption Spending

Solved Problem 22.3: Determining Macroeconomic Equilibrium

22.4 The Multiplier Effect

Apply the Concept: The Multiplier in Reverse: The Great Depression of the 1930s

A Formula for the Multiplier

Summarizing the Multiplier Effect

Solved Problem 22.4: Using the Multiplier Formula

The Paradox of Thrift

22.5 The Aggregate Demand Curve

Conclusion

Chapter Summary and Problems

Appendix: The Algebra of Macroeconomic Equilibrium

Review Questions

Chapter 23: Aggregate Demand and Aggregate Supply Analysis

General Motors Hopes the Economic Expansion Doesnt Die of Old Age

23.1 Aggregate Demand

Why Is the Aggregate Demand Curve Downward Sloping?

Shifts of the Aggregate Demand Curve versus Movements along It

The Variables That Shift the Aggregate Demand Curve

Dont Let This Happen to You: Understand Why the Aggregate Demand Curve Is Downward Sloping

Solved Problem 23.1: Movements along the Aggregate Demand Curve or Shifts of the Curve?

Apply the Concept: Which Components of Aggregate Demand Changed the Most during the 20072009 Recession?

23.2 Aggregate Supply

The Long-Run Aggregate Supply Curve

The Short-Run Aggregate Supply Curve



Apply the Concept: How Sticky Are Wages?

Shifts of the Short-Run Aggregate Supply Curve versus Movements along It

Variables That Shift the Short-Run Aggregate Supply Curve

23.3 Macroeconomic Equilibrium in the Long Run and the Short Run

Recessions, Expansions, and Supply Shocks

Apply the Concept: Does It Matter What Causes a Decline in Aggregate Demand?

Apply the Concept: Is the Business Cycle Really a Cycle?

23.4 A Dynamic Aggregate Demand and Aggregate Supply Model

What Is the Usual Cause of Inflation?

The Recession of 20072009

Solved Problem 23.4: Showing the Oil Shock of 19741975 on a Dynamic Aggregate Demand and Aggregate Supply Graph

Conclusion

Chapter Summary and Problems

Appendix: Macroeconomic Schools of Thought

The Monetarist Model

The New Classical Model

The Real Business Cycle Model

The Austrian Model

Apply the Concept: Karl Marx: Capitalisms Severest Critic

Part 9: Monetary and Fiscal Policy

Chapter 24: Money, Banks, and the Federal Reserve System

Is Venmo the End of Money?

24.1 What Is Money, and Why Do We Need It?

Barter and the Invention of Money

The Functions of Money

What Can Serve as Money?

Apply the Concept: Your Money Is No Good Here!

24.2 How Is Money Measured in the United States Today?

M1: A Narrow Definition of the Money Supply

M2: A Broad Definition of Money

Dont Let This Happen to You: Dont Confuse Money with Income or Wealth

Solved Problem 24.2: The Def initions of M1 and M2

What about Credit Cards and Debit Cards?

Apply the Concept: Are Bitcoins Money?

24.3 How Do Banks Create Money?

Bank Balance Sheets

Apply the Concept: Help for Young Borrowers: Fintech or Ceilings on Interest Rates?

Using T-accounts to Show How a Bank Can Create Money

The Simple Deposit Multiplier



Dont Let This Happen to You: Dont Confuse Assets and Liabilities

Solved Problem 24.3: Showing How Banks Create Money

The Simple Deposit Multiplier versus the Real-World Deposit Multiplier

24.4 The Federal Reserve System

The Establishment of the Federal Reserve System

How the Federal Reserve Manages the Money Supply

The Shadow Banking System and the Financial Crisis of 20072009

24.5 The Quantity Theory of Money

Connecting Money and Prices: The Quantity Equation

The Quantity Theory Explanation of Inflation

How Accurate Are Forecasts of Inflation Based on the Quantity Theory?

High Rates of Inflation

Apply the Concept: The German Hyperinflation of the Early 1920s

Conclusion

Chapter Summary and Problems

Chapter 25: Monetary Policy

Who Elected the Fed?

25.1 What Is Monetary Policy?

The Goals of Monetary Policy

25.2 The Money Market and the Feds Choice of Monetary Policy Targets

Monetary Policy Targets

The Demand for Money

Shifts in the Money Demand Curve

How the Fed Manages the Money Supply: A Quick Review

Equilibrium in the Money Market

A Tale of Two Interest Rates

Choosing a Monetary Policy Target

The Importance of the Federal Funds Rate

Managing the Federal Funds Rate Today

25.3 Monetary Policy and Economic Activity

How Interest Rates Affect Aggregate Demand

The Effects of Monetary Policy on Real GDP and the Price Level

Apply the Concept: Quantitative Easing, the Feds Balance Sheet, and Negative Interest Rates in Europe

Can the Fed Eliminate Recessions?

Fed Forecasts

Apply the Concept: Trying to Hit a Moving Target: Making Policy with Real-Time Data

A Summary of How Monetary Policy Works

Dont Let This Happen to You: Remember That with Monetary Policy, Its the Interest RatesNot the MoneyThat Counts

25.4 Monetary Policy in the Dynamic Aggregate Demand and Aggregate Supply Model



The Effects of Monetary Policy on Real GDP and the Price Level: A More Complete Account

Using Monetary Policy to Fight Inflation

Solved Problem 25.4: The Effects of Monetary Policy

25.5 A Closer Look at the Feds Setting of Monetary Policy Targets

Should the Fed Target the Money Supply?

Why Doesnt the Fed Target Both the Money Supply and the Interest Rate?

The Taylor Rule

Solved Problem 25.5: Applying the Taylor Rule

Inflation Targeting . . . or Nominal GDP Targeting?

Apply the Concept: Should the Fed Worry about the Prices of Food and Gasoline?

25.6 Fed Policies during the 20072009 Recession

The Inflation and Deflation of the Housing Market Bubble

The Changing Mortgage Market

The Role of Investment Banks

Apply the Concept: The Wonderful World of Leverage

The Fed and the Treasury Department Respond

Conclusion

Chapter Summary and Problems

Chapter 26: Fiscal Policy

Can Fiscal Policy Increase Economic Growth?

26.1 What Is Fiscal Policy?

What Fiscal Policy Is and What It Isnt

Automatic Stabilizers versus Discretionary Fiscal Policy

An Overview of Government Spending and Taxes

Apply the Concept: Is Spending on Social Security and Medicare a Fiscal Time Bomb?

26.2 The Effects of Fiscal Policy on Real GDP and the Price Level

Short-Run Expansionary and Contractionary Fiscal Policy

A Summary of How Fiscal Policy Affects Aggregate Demand

Dont Let This Happen to You: Dont Confuse Fiscal Policy and Monetary Policy

26.3 Fiscal Policy in the Dynamic Aggregate Demand and Aggregate Supply Model

26.4 The Government Purchases and Tax Multipliers

The Effect of Changes in the Tax Rate

Taking into Account the Effects of Aggregate Supply

The Multipliers Work in Both Directions

Solved Problem 26.4: Fiscal Policy Multipliers

26.5 The Limits to Using Fiscal Policy to Stabilize the Economy

Apply the Concept: Why Was the Recession of 20072009 So Severe?

Does Government Spending Reduce Private Spending?

Crowding Out in the Short Run

Crowding Out in the Long Run

Fiscal Policy in Action: Did the Stimulus Package of 2009 Succeed?



26.6 Deficits, Surpluses, and Federal Government Debt

How the Federal Budget Can Serve as an Automatic Stabilizer

Should the Federal Budget Always Be Balanced?

Solved Problem 26.6: The Italian Government Confronts a Budget Deficit

The Federal Government Debt

Is Government Debt a Problem?

Apply the Concept: Modern Monetary Theory: Should We Stop Worrying and Love the Debt?

26.7 Long-Run Fiscal Policy and Economic Growth

Explaining Long-Run Increases in Real GDP

How Can Fiscal Policy Affect Long-Run Economic Growth? The Long-Run Effects of Tax Policy

Tax Simplification

The Economic Effects of Tax Reform

How Large Are Supply-Side Effects?

Apply the Concept: Will President Trumps Fiscal Policy Raise the Rate of Economic Growth?

Conclusion

Chapter Summary and Problems

Appendix: A Closer Look at the Multiplier

An Expression for Equilibrium Real GDP

A Formula for the Government Purchases Multiplier

A Formula for the Tax Multiplier

The Balanced Budget Multiplier

The Effects of Changes in Tax Rates on the Multiplier

The Multiplier in an Open Economy

Problem and Applications

Chapter 27: Inflation, Unemployment, and Federal Reserve Policy

The Fed Deals with Inflation, Unemployment, . . . and the President

27.1 The Discovery of the Short-Run Trade-off between Unemployment and Inflation

Explaining the Phillips Curve with Aggregate Demand and Aggregate Supply Curves

Is the Phillips Curve a Policy Menu?

Is the Short-Run Phillips Curve Stable?

The Long-Run Phillips Curve

The Role of Expectations of Future Inflation

Apply the Concept: Do Workers Understand Inflation?

27.2 The Short-Run and Long-Run Phillips Curves

Shifts in the Short-Run Phillips Curve

How Does a Vertical Long-Run Phillips Curve Affect Monetary Policy?

Apply the Concept: Does the Natural Rate of Unemployment Ever Change?

Solved Problem 27.2: Changing Views of the Phillips Curve

27.3 Monetary Policy and Expectations of the Inflation Rate

The Implications of Rational Expectations for Monetary Policy



Is the Short-Run Phillips Curve Really Vertical?

Real Business Cycle Models

27.4 Federal Reserve Policy from the 1970s to the Present

The Effect of a Supply Shock on the Phillips Curve

Paul Volcker and Disinflation

Dont Let This Happen to You: Dont Confuse Disinflation with Deflation

Solved Problem 27.4: Using Monetary Policy to Lower the Inflation Rate

Recent Fed Chairs and the Debate over the Feds Future

Apply the Concept: Has the Phillips Curve Disappeared?

Should the Fed Be Independent of Congress and the President?

Conclusion

Chapter Summary and Problems

Part 10: The International Economy

Chapter 28: Macroeconomics in an Open Economy

Amazon Deals with a Fluctuating Dollar

28.1 The Balance of Payments: Linking the United States to the International Economy

The Current Account

The Financial Account

The Capital Account

Why Is the Balance of Payments Always Zero?

Dont Let This Happen to You: Dont Confuse the Trade Balance, the Current Account Balance, and the Balance of Payments

28.2 The Foreign Exchange Market and Exchange Rates

Equilibrium in the Market for Foreign Exchange

Shifts in Demand and Supply in the Foreign Exchange Market

How Movements in the Exchange Rate Affect Exports and Imports

Apply the Concept: Is a Strong Currency Good for a Country?

Dont Let This Happen to You: Dont Confuse What Happens When a Currency Appreciates with What Happens When It Depreciates

Solved Problem 28.2: Toyota Rides the Exchange Rate Rollercoaster

The Real Exchange Rate

Exchange Rates in the Long Run

Apply the Concept: The Big Mac Theory of Exchange Rates

28.3 Exchange Rate Systems

The Floating Dollar

The Euro

Pegging against the Dollar

Apply the Concept: The Chinese Yuan: The Worlds Most Controversial Currency

28.4 The International Sector and National Saving and Investment

Net Exports Equal Net Foreign Investment

Domestic Saving, Domestic Investment, and Net Foreign Investment



Solved Problem 28.4: Arriving at the Saving and Investment Equation

28.5 The Effect of a Government Budget Deficit on Investment

28.6 Monetary Policy and Fiscal Policy in an Open Economy

Monetary Policy in an Open Economy

Fiscal Policy in an Open Economy

Conclusion

Chapter Summary and Problems

Online Appendix: The Gold Standard and the Bretton Woods System

Glossary

Company Index

Subject Index

Credits