

CHAPTER 2

THE MATHEMATICS OF OPTIMIZATION

The problems in this chapter are primarily mathematical. They are intended to give students some practice with taking derivatives and using the Lagrangian techniques, but the problems in themselves offer few economic insights. Consequently, no commentary is provided. All of the problems are relatively simple and instructors might choose from among them on the basis of how they wish to approach the teaching of the optimization methods in class.

Solutions

2.1 $U(x, y) = 4x^2 + 3y^2$

a. $\frac{\partial U}{\partial x} = 8x$ $\frac{\partial U}{\partial y} = 6y$

b. $\frac{\partial U}{\partial x} = 8x$ $\frac{\partial U}{\partial y} = 6y$

c. $dU = \frac{\partial U}{\partial x} dx + \frac{\partial U}{\partial y} dy = 8x dx + 6y dy$

d. $\frac{dy}{dx}$ for $dU = 0$ $8x dx + 6y dy = 0$
 $\frac{dy}{dx} = \frac{-8x}{6y} = \frac{-4x}{3y}$

e. $x=1, y=2$ $U = 4 \cdot 1 + 3 \cdot 4 = 16$

f. $\frac{dy}{dx} = \frac{-4(1)}{3(2)} = -2/3$

g. $U = 16$ contour line is an ellipse centered at the origin. With equation

$4x^2 + 3y^2 = 16$, slope of the line at (x, y) is $\frac{dy}{dx} = -\frac{4x}{3y}$.

2.2 a. Profits are given by $\pi = R - C = -2q^2 + 40q - 100$

$\frac{d\pi}{dq} = -4q + 40$ $q^* = 10$

0

$\frac{d\pi}{dq}$

$\frac{d^2\pi}{dq^2} = -4 < 0$ so profits are maximized

b. $\frac{d^2\pi}{dq^2} = -4$ so profits are maximized

c. $MR = \frac{dR}{dq} = 70 - 2q$

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Jon Rogawski



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 - The Rise of Digital Reading Solutions Manual Optimization
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual Optimization
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solutions Manual Optimization
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual Optimization
 - Personalized Recommendations
 - Solutions Manual Optimization User Reviews and Ratings
 - Solutions Manual Optimization and Bestseller Lists
5. Accessing Solutions Manual Optimization Free and Paid eBooks
 - Solutions Manual Optimization Public Domain eBooks
 - Solutions Manual Optimization eBook Subscription Services
 - Solutions Manual Optimization Budget-Friendly Options
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- Solutions Manual Optimization Enhanced eBook Features
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 - Highlighting and Note-Taking Solutions Manual Optimization
 - Interactive Elements Solutions Manual Optimization
- 8. Staying Engaged with Solutions Manual Optimization
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Manual Optimization
- 9. Balancing eBooks and Physical Books Solutions Manual Optimization
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Manual Optimization
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solutions Manual Optimization
 - Setting Reading Goals Solutions Manual Optimization
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solutions Manual Optimization
 - Fact-Checking eBook Content of Solutions Manual Optimization
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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