

CALCULUS I

Name: _____

CHAPTER 10: TRIGONOMETRIC DERIV

Find the derivative of each of the following.

1. $y = 2\sin x + \cos x$

2. $y = \frac{\cos^2 x + 3\sin^2 x}{\cos x}$

3. $y = \frac{\sin x + \cos^2 x}{\cos x}$

4. $y = \tan x (\cos x + \sin x)$

5. $y = 3x + \cos x$

6. $y = \frac{\cos x}{8 + \cos x}$

7. $y = \sec 8x$

8. $y = -\sin^2 x$

9. $y = 3\sec(2x^2 + 4x)$

10. $y = \cos(2x + \pi)$

11. $y = \cos(\pi(2x + 1))$

12. $y = \cos^2(-4x^2 + 8)$

13. $\sec y = x$

14. $2x^2 + \pi y = 2\pi$

15. $\sec(y^2) = 2y^2 + x$

Find the second derivative of each of the following.

16. $y = 2x^2 \sin x + \cos x$

17. $x^2 + y^2 = 12$

18. Find the equation of the tangent to $y = \sin x$ at $x = \pi$.19. Find the equation of the tangent to $y^2 = 2x + 2x - 1$ at $(7, 2)$.

Calculus Chapter 3

Marco Casella



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Table of Contents Calculus Chapter 3

1. Understanding the eBook Calculus Chapter 3
 - The Rise of Digital Reading Calculus Chapter 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Chapter 3
 - 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 Calculus Chapter 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Chapter 3
 - Personalized Recommendations
 - Calculus Chapter 3 User Reviews and Ratings
 - Calculus Chapter 3 and Bestseller Lists
5. Accessing Calculus Chapter 3 Free and Paid eBooks
 - Calculus Chapter 3 Public Domain eBooks
 - Calculus Chapter 3 eBook Subscription Services
 - Calculus Chapter 3 Budget-Friendly Options

6. Navigating Calculus Chapter 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculus Chapter 3 Compatibility with Devices
 - Calculus Chapter 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculus Chapter 3
 - Highlighting and Note-Taking Calculus Chapter 3
 - Interactive Elements Calculus Chapter 3
8. Staying Engaged with Calculus Chapter 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculus Chapter 3
9. Balancing eBooks and Physical Books Calculus Chapter 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculus Chapter 3
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Calculus Chapter 3
 - Setting Reading Goals Calculus Chapter 3
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Calculus Chapter 3
 - Fact-Checking eBook Content of Calculus Chapter 3
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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