

Directions: Answer each question below by providing enough work to defend your answer. Partial Credit will be given depending on the amount of work given. NO CALCULATORS WILL BE USED ON THIS TEST.



1. (10pts) Find the equation of the tangent line for the curve at the given point.

$$x^2 + xy + y^2 = 7 \quad (2, 1)$$

$$2x + x\left(\frac{dy}{dx}\right) + y(1) + 2y\left(\frac{dy}{dx}\right) = 0$$

$$x\left(\frac{dy}{dx}\right) + 2y\left(\frac{dy}{dx}\right) = -2x - y$$

$$\frac{\frac{dy}{dx}(x + 2y)}{x + 2y} = \frac{-2x - y}{x + 2y}$$

$$\frac{dy}{dx} = \frac{-2x - y}{x + 2y} \stackrel{\text{plug in}}{=} \frac{-2(2) - 1}{(2) + 2(1)} = \frac{-4 - 1}{2 + 2} = \frac{-5}{4}$$

$$y - 1 = \frac{-5}{4}(x - 2)$$

$$y - 1 = \frac{-5}{4}x + \frac{5}{2} + 1 = \boxed{y = -\frac{5}{4}x + \frac{7}{2}}$$

2. (10pts) Find the derivative of the following function. Simplify where possible.

$$f(x) = \ln(4x^3 - e^{3x} - 2)$$

$$f'(x) = \frac{1}{4x^3 - e^{3x} - 2} (12x^2 - 3e^{3x})$$

$$f'(x) = \frac{12x^2 - 3e^{3x}}{4x^3 - e^{3x} - 2}$$

$$\boxed{f'(x) = \frac{3(4x^2 - e^{3x})}{4x^3 - e^{3x} - 2}}$$

Mississippi State Calculus Syllabus

Dr. Piyus Raj Prabhat, Dr. Harjit Kumar

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Table of Contents Mississippi State Calculus Syllabus

1. Understanding the eBook Mississippi State Calculus Syllabus
 - The Rise of Digital Reading Mississippi State Calculus Syllabus
 - Advantages of eBooks Over Traditional Books
2. Identifying Mississippi State Calculus Syllabus
 - 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 Mississippi State Calculus Syllabus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mississippi State Calculus Syllabus
 - Personalized Recommendations
 - Mississippi State Calculus Syllabus User Reviews and Ratings
 - Mississippi State Calculus Syllabus and Bestseller Lists

5. Accessing Mississippi State Calculus Syllabus Free and Paid eBooks
 - Mississippi State Calculus Syllabus Public Domain eBooks
 - Mississippi State Calculus Syllabus eBook Subscription Services
 - Mississippi State Calculus Syllabus Budget-Friendly Options
6. Navigating Mississippi State Calculus Syllabus eBook Formats
 - ePub, PDF, MOBI, and More
 - Mississippi State Calculus Syllabus Compatibility with Devices
 - Mississippi State Calculus Syllabus Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mississippi State Calculus Syllabus
 - Highlighting and Note-Taking Mississippi State Calculus Syllabus
 - Interactive Elements Mississippi State Calculus Syllabus
8. Staying Engaged with Mississippi State Calculus Syllabus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mississippi State Calculus Syllabus
9. Balancing eBooks and Physical Books Mississippi State Calculus Syllabus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mississippi State Calculus Syllabus
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mississippi State Calculus Syllabus
 - Setting Reading Goals Mississippi State Calculus Syllabus
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mississippi State Calculus Syllabus
 - Fact-Checking eBook Content of Mississippi State Calculus Syllabus
 - 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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