

Calculus Final Exam Study Guide

1. (No Calc) What is the value of $\lim_{x \rightarrow -1} \frac{x^2 - 3x - 4}{x^2 - 1}$?

Start by plugging in:

$$= \frac{(-1)^2 - 3(-1) - 4}{(-1)^2 - 1} = \frac{1 + 3 - 4}{1 - 1} = \frac{0}{0}$$

We have the indeterminate form, we need to use L'Hopital's Rule. Take the derivative of the top and bottom (separately), then try plugging in again.

$$= \lim_{x \rightarrow -1} \frac{2x - 3}{2x} = \frac{2(-1) - 3}{2(-1)} = \frac{-2 - 3}{-2} = \frac{-5}{-2} = \frac{5}{2}$$

2. (No Calc) What is the equation of the line tangent to $f(x) = 3x - 5 \cos 2x$ at $x = 0$?

We will use the form: $y = m(x - x_1) + y_1$. We have our x_1 , we only need m and y_1 .

To get y_1 , plug into the original equation:

$$f(0) = 3(0) - 5 \cos(2 \cdot 0) = 0 - 5 \cos 0 = -5$$

To get m , plug into the derivative (remember to use the chain rule!):

$$\begin{aligned} f'(x) &= 3 + 10 \sin 2x \\ f'(0) &= 3 + 10 \sin(2 \cdot 0) \\ &= 3 \end{aligned}$$

And now we just plug into the equation of the line:

$$y = 3(x - 0) - 5$$

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Jiyuan Zhang



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Table of Contents High School Calculus Final Exam Study Guide

1. Understanding the eBook High School Calculus Final Exam Study Guide
 - The Rise of Digital Reading High School Calculus Final Exam Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying High School Calculus Final Exam Study Guide
 - 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 High School Calculus Final Exam Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from High School Calculus Final Exam Study Guide
 - Personalized Recommendations
 - High School Calculus Final Exam Study Guide User Reviews and Ratings

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