

Suppose that the function f is defined by

$$f(x) = \frac{1}{x^2} \ln(x^2 + 1)$$

Find the first derivative of f using the quotient rule and simplify the derivative as much as possible.

Use the first derivative to determine the intervals on which f is increasing or decreasing and the intervals on which f is concave up or concave down.

Interval

Increasing

$$f'(x) = \frac{2x \ln(x^2 + 1) - 2x}{x^4} = \frac{2x(\ln(x^2 + 1) - 1)}{x^4}$$

Decreasing

Interval x such that $f''(x) > 0$

Interval

Concave up

Interval

$$f''(x) = \frac{2(\ln(x^2 + 1) - 1) - 2x^2}{x^5}$$

$$f''(x) = \frac{2(\ln(x^2 + 1) - 1 - x^2)}{x^5}$$

Interval

$$f''(x) = \frac{2(\ln(x^2 + 1) - 1 - x^2)}{x^5}$$

Interval x such that $f''(x) < 0$

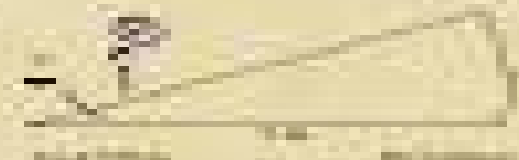
Interval

Concave down

$$f''(x) = \frac{2(\ln(x^2 + 1) - 1 - x^2)}{x^5}$$

Interval

Find the length of the curve $y = \ln(x^2 + 1)$ from $x = 0$ to $x = 1$.



Length of curve

$$L = \int_0^1 \sqrt{1 + \frac{2x}{x^2 + 1}} dx = \int_0^1 \sqrt{\frac{x^2 + 1 + 2x}{x^2 + 1}} dx = \int_0^1 \sqrt{\frac{(x+1)^2}{x^2 + 1}} dx = \int_0^1 \frac{x+1}{\sqrt{x^2 + 1}} dx$$

$$L = \int_0^1 \frac{x+1}{\sqrt{x^2 + 1}} dx = \int_0^1 \frac{x}{\sqrt{x^2 + 1}} dx + \int_0^1 \frac{1}{\sqrt{x^2 + 1}} dx$$

Interval



Length of curve

$$L = \int_0^1 \frac{x+1}{\sqrt{x^2 + 1}} dx = \int_0^1 \frac{x}{\sqrt{x^2 + 1}} dx + \int_0^1 \frac{1}{\sqrt{x^2 + 1}} dx = \left[\sqrt{x^2 + 1} \right]_0^1 + \left[\ln(x + \sqrt{x^2 + 1}) \right]_0^1 = \sqrt{2} + \ln(1 + \sqrt{2})$$

Interval

Interval

Problem 2

Suppose that the function f is defined by $f(x) = \frac{1}{x^2} \ln(x^2 + 1)$ and the function g is defined by $g(x) = \frac{1}{x^2} \ln(x^2 + 1)$.

Find the first derivative of f using the quotient rule and simplify the derivative as much as possible.

Interval

Increasing

Decreasing

Interval

Use the first derivative to determine the intervals on which f is increasing or decreasing and the intervals on which f is concave up or concave down.

Interval

Increasing

Decreasing

Interval

Find the length of the curve $y = \ln(x^2 + 1)$ from $x = 0$ to $x = 1$.

Interval

Increasing

Decreasing

Interval

Doc Trig Final Exam Review Multiple Choice

Benjamin Kligler, Roberta Anne Lee



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Table of Contents Doc Trig Final Exam Review Multiple Choice

1. Understanding the eBook Doc Trig Final Exam Review Multiple Choice
 - The Rise of Digital Reading Doc Trig Final Exam Review Multiple Choice
 - Advantages of eBooks Over Traditional Books
2. Identifying Doc Trig Final Exam Review Multiple Choice
 - 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 Doc Trig Final Exam Review Multiple Choice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Doc Trig Final Exam Review Multiple Choice
 - Personalized Recommendations
 - Doc Trig Final Exam Review Multiple Choice User Reviews and Ratings
 - Doc Trig Final Exam Review Multiple Choice and Bestseller Lists

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