

Differentiate the following function

1. $y = x^3 3^x$, find $\frac{dy}{dx}$

let $f(x) = x^3$
and $g(x) = 3^x$

$\therefore f'(x) = 3x^2$
 $g'(x) = 3^x \ln 3$

$\therefore \frac{dy}{dx} = x^3 \cdot 3^x \ln 3 + 3x^2 \cdot 3^x$
 $= 3^x (x^3 \ln 3 + 3x^2)$

let $f(x) = 3^x$
and $g(x) = x^3 \ln 3 + 3x^2$

$\therefore f'(x) = 3^x \ln 3$
 $g'(x) = 3x^2 \ln 3 + 6x$

$\therefore \frac{d^2 y}{dx^2} = 3^x \cdot (3x^2 \ln 3 + 6x) + 3^x \ln 3 \cdot (x^3 \ln 3 + 3x^2)$
 $= 3^x (x^3 \ln^2 3 + 6x^2 \ln 3 + 6x)$

2. $y = \frac{e^x}{\sqrt{e^x + 1}}$

let $f(x) = e^x$
and $g(x) = \sqrt{e^x + 1}$

then $f'(x) = e^x$

To find $g'(x)$, we use the chain rule

let $u = e^x + 1 \therefore g(x) = u^{\frac{1}{2}}$

By chain rule $g'(x) = \frac{d}{du} g(u) \cdot \frac{du}{dx}$

Quotient Rule
If $y = \frac{f(x)}{g(x)}$, then
 $g'(x) = \frac{g(x)f'(x) - f(x)g'(x)}{[g(x)]^2}$

Chain Rule

If $y = y(u(x))$, then

$\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$
↑
derivative of outer function
↑
derivative of inside

Logic Notes Manual

ML Yell



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Table of Contents Logic Notes Manual

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

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