



# Differentiation

You can repeat the process of differentiation to get the 'second order derivative'

$f(x)$                       Original Equation

$f'(x)$  or  $\frac{dy}{dx}$               Differentiate once (first order derivative)

$f''(x)$  or  $\frac{d^2y}{dx^2}$               Differentiate twice (second order derivative)

## Examples

Find  $\frac{dy}{dx}$  and  $\frac{d^2y}{dx^2}$  of the following:

$$b) y = 3\sqrt{x} + \frac{1}{2x}$$

$$f(x) = 3\sqrt{x} + \frac{1}{2x}$$

$$f(x) = 3x^{\frac{1}{2}} + \frac{1}{2}x^{-1}$$

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

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

Rewrite in the form  $ax^n$

Differentiate

Differentiate again

# Formal Differentiation

**S Baum**



**Formal Differentiation:**

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## **Table of Contents Formal Differentiation**

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

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