

Calculus

First Principles!

Question

$$f(x) = 1 - 2x + x^2$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

replace x for $(x+h)$

$$\begin{aligned} f(x+h) &= 1 - 2(x+h) + (x+h)^2 \\ &= 1 - 2x - 2h + x^2 + xh + xh + h^2 \\ &= 1 - 2x - 2h + x^2 + h^2 + 2xh \end{aligned}$$

simplify

don't forget $f(x)$

$$f'(x) = \lim_{h \rightarrow 0} \frac{(1 - 2x - 2h + x^2 + h^2 + 2xh) - (1 - 2x + x^2)}{h}$$

subs into big formula

$$\lim_{h \rightarrow 0} \frac{(1 - 2x - 2h + x^2 + h^2 + 2xh) - 1 + 2x - x^2}{h}$$

simplify

$$\lim_{h \rightarrow 0} \frac{\cancel{1} - \cancel{2x} - 2h + x^2 + h^2 + 2xh - \cancel{1} + \cancel{2x} - \cancel{x^2}}{h}$$

factorise to cancel

$$\lim_{h \rightarrow 0} \frac{-2h + h^2 + 2xh}{h}$$

$$\lim_{h \rightarrow 0} \frac{\cancel{h}(-2 + h + 2x)}{\cancel{h}}$$

substitute 0 for h (limit)

$$f'(x) = -2 + 2x$$

check using short cut of first derivative

Notes

Process

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JS Bruner



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Table of Contents Student Notes And Problems Principles Of Math 12

1. Understanding the eBook Student Notes And Problems Principles Of Math 12
 - The Rise of Digital Reading Student Notes And Problems Principles Of Math 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Notes And Problems Principles Of Math 12
 - 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 Student Notes And Problems Principles Of Math 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Notes And Problems Principles Of Math 12

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

- Fact-Checking eBook Content of Student Notes And Problems Principles Of Math 12
 - 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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