

Chapter 2 Review

Chapter 2 Review

Question 1 Page 142

a) $h'(t) = 3t^2 - 4t - \frac{2}{t^3}$

Use the sum rule and the power rule.

b) $p(n) = -n^3 + 5n^2 + n^{\frac{2}{3}}$

$$p'(n) = -5n^2 + 15n^2 + \frac{2}{3\sqrt[3]{n}}$$

Use the sum rule and the power rule.

c) $p(r) = r^5 - \frac{2}{5}r^{-\frac{1}{5}} + r - 1$

$$p'(r) = 6r^2 + \frac{1}{5\sqrt[5]{r^4}} + 1$$

Use the sum rule, the power rule, and the constant rule.

Chapter 2 Review

Question 2 Page 142

a) $V'(r) = 4\pi r^2$

$$V'(1.5) = 4\pi(1.5)^2$$

$$= 9\pi$$

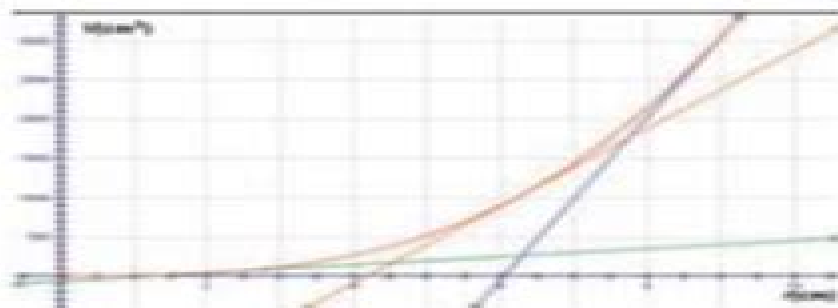
$$V'(6) = 4\pi(6)^2$$

$$= 144\pi$$

$$V'(9) = 4\pi(9)^2$$

$$= 324\pi$$

b)



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Table of Contents Mhr Calculus And Vectors 12 Solutions Chapter

1. Understanding the eBook Mhr Calculus And Vectors 12 Solutions Chapter
 - The Rise of Digital Reading Mhr Calculus And Vectors 12 Solutions Chapter
 - Advantages of eBooks Over Traditional Books
2. Identifying Mhr Calculus And Vectors 12 Solutions Chapter
 - 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 Mhr Calculus And Vectors 12 Solutions Chapter
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mhr Calculus And Vectors 12 Solutions Chapter
 - Personalized Recommendations
 - Mhr Calculus And Vectors 12 Solutions Chapter User Reviews and Ratings

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