

Question 6

6.1

6.1.1.

$$y = \frac{1}{2}x^{-4} - 6x^{\frac{1}{3}} - \pi$$

$$\frac{dy}{dx} = \frac{1}{2} \cdot -4x^{-5} - 6 \cdot \frac{1}{3}x^{-2/3} - 0$$

$$= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}}$$

$$= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}}$$

6.1.2



$$y = (2 - \sqrt{x})^2$$

$$\frac{dy}{dx} = 2(2 - \sqrt{x})\left(-\frac{1}{2}x^{-1/2}\right)$$

$$= 2(2 - \sqrt{x}) \cdot -\frac{1}{2\sqrt{x}}$$

$$= -\frac{(2 - \sqrt{x})}{\sqrt{x}}$$

6.2

$$y = x^2 + 4x - 8$$

$$\frac{dy}{dx} = 2x + 4$$

$$\text{where } x = -8, \text{ gradient} = 2(-8) + 4 = -12$$

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Rachel Sandford



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Table of Contents Mathematics Memo March 2014 Civil Engineering N3

1. Understanding the eBook Mathematics Memo March 2014 Civil Engineering N3
 - The Rise of Digital Reading Mathematics Memo March 2014 Civil Engineering N3
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Memo March 2014 Civil Engineering N3
 - 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 Mathematics Memo March 2014 Civil Engineering N3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Memo March 2014 Civil Engineering N3
 - Personalized Recommendations
 - Mathematics Memo March 2014 Civil Engineering N3 User Reviews and Ratings
 - Mathematics Memo March 2014 Civil Engineering N3 and Bestseller Lists
5. Accessing Mathematics Memo March 2014 Civil Engineering N3 Free and Paid eBooks

- Mathematics Memo March 2014 Civil Engineering N3 Public Domain eBooks
 - Mathematics Memo March 2014 Civil Engineering N3 eBook Subscription Services
 - Mathematics Memo March 2014 Civil Engineering N3 Budget-Friendly Options
6. Navigating Mathematics Memo March 2014 Civil Engineering N3 eBook Formats
- ePub, PDF, MOBI, and More
 - Mathematics Memo March 2014 Civil Engineering N3 Compatibility with Devices
 - Mathematics Memo March 2014 Civil Engineering N3 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics Memo March 2014 Civil Engineering N3
 - Highlighting and Note-Taking Mathematics Memo March 2014 Civil Engineering N3
 - Interactive Elements Mathematics Memo March 2014 Civil Engineering N3
8. Staying Engaged with Mathematics Memo March 2014 Civil Engineering N3
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Memo March 2014 Civil Engineering N3
9. Balancing eBooks and Physical Books Mathematics Memo March 2014 Civil Engineering N3
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Memo March 2014 Civil Engineering N3
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Memo March 2014 Civil Engineering N3
- Setting Reading Goals Mathematics Memo March 2014 Civil Engineering N3
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Memo March 2014 Civil Engineering N3
- Fact-Checking eBook Content of Mathematics Memo March 2014 Civil Engineering N3
 - 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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