

## 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

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

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

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

# July 2011 Engineering Maths N3 Question Paper

**Camilla Rothe**



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### **Table of Contents July 2011 Engineering Maths N3 Question Paper**

1. Understanding the eBook July 2011 Engineering Maths N3 Question Paper
  - The Rise of Digital Reading July 2011 Engineering Maths N3 Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying July 2011 Engineering Maths N3 Question Paper
  - 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 July 2011 Engineering Maths N3 Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from July 2011 Engineering Maths N3 Question Paper
  - Personalized Recommendations
  - July 2011 Engineering Maths N3 Question Paper User Reviews and Ratings

- July 2011 Engineering Maths N3 Question Paper and Bestseller Lists
- 5. Accessing July 2011 Engineering Maths N3 Question Paper Free and Paid eBooks
  - July 2011 Engineering Maths N3 Question Paper Public Domain eBooks
  - July 2011 Engineering Maths N3 Question Paper eBook Subscription Services
  - July 2011 Engineering Maths N3 Question Paper Budget-Friendly Options
- 6. Navigating July 2011 Engineering Maths N3 Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - July 2011 Engineering Maths N3 Question Paper Compatibility with Devices
  - July 2011 Engineering Maths N3 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of July 2011 Engineering Maths N3 Question Paper
  - Highlighting and Note-Taking July 2011 Engineering Maths N3 Question Paper
  - Interactive Elements July 2011 Engineering Maths N3 Question Paper
- 8. Staying Engaged with July 2011 Engineering Maths N3 Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers July 2011 Engineering Maths N3 Question Paper
- 9. Balancing eBooks and Physical Books July 2011 Engineering Maths N3 Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection July 2011 Engineering Maths N3 Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine July 2011 Engineering Maths N3 Question Paper
  - Setting Reading Goals July 2011 Engineering Maths N3 Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of July 2011 Engineering Maths N3 Question Paper
  - Fact-Checking eBook Content of July 2011 Engineering Maths N3 Question Paper
  - 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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