

Question 6

6.1

6.1.1.

$$\begin{aligned}
 y &= \frac{1}{2}x^{-4} - 6x^{1/3} - \pi \\
 \frac{dy}{dx} &= \frac{1}{2} \cdot -4x^{-5} - 6 \cdot \frac{1}{3}x^{-2/3} - 0 \\
 &= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}} \\
 &= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}}
 \end{aligned}$$

6.1.2



$$\begin{aligned}
 y &= (2 - \sqrt{x})^2 \\
 \frac{dy}{dx} &= 2(2 - \sqrt{x}) \left(-\frac{1}{2}x^{-1/2}\right) \\
 &= 2(2 - \sqrt{x}) \cdot \frac{1}{\sqrt{x}} \\
 &= -\frac{(2 - \sqrt{x})}{\sqrt{x}}
 \end{aligned}$$

6.2

$$\begin{aligned}
 y &= x^2 + 4x - 8 \\
 \frac{dy}{dx} &= 2x + 4
 \end{aligned}$$

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

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Annelies Wilder-Smith



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Table of Contents Engineering Mathematics N3 Question Papers

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

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