

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

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

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

Engineering Mathematics N5 Past Exam

N Colangelo



Engineering Mathematics N5 Past Exam:

This book delves into Engineering Mathematics N5 Past Exam. Engineering Mathematics N5 Past Exam is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Engineering Mathematics N5 Past Exam, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Engineering Mathematics N5 Past Exam
- Chapter 2: Essential Elements of Engineering Mathematics N5 Past Exam
- Chapter 3: Engineering Mathematics N5 Past Exam in Everyday Life
- Chapter 4: Engineering Mathematics N5 Past Exam in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Engineering Mathematics N5 Past Exam. The first chapter will explore what Engineering Mathematics N5 Past Exam is, why Engineering Mathematics N5 Past Exam is vital, and how to effectively learn about Engineering Mathematics N5 Past Exam.

3. In chapter 2, the author will delve into the foundational concepts of Engineering Mathematics N5 Past Exam. The second chapter will elucidate the essential principles that must be understood to grasp Engineering Mathematics N5 Past Exam in its entirety.

4. In chapter 3, the author will examine the practical applications of Engineering Mathematics N5 Past Exam in daily life. This chapter will showcase real-world examples of how Engineering Mathematics N5 Past Exam can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Engineering Mathematics N5 Past Exam in specific contexts. This chapter will explore how Engineering Mathematics N5 Past Exam is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Engineering Mathematics N5 Past Exam. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Mathematics N5 Past Exam.

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