

Newton-Raphson method:

Example - 1: Using the Newton-Raphson method to find a root of the equation $x^3 - 3x - 5 = 0$.

Solution:

$$\text{Let, } f(x) = x^3 - 3x - 5$$

$$f'(x) = 3x^2 - 3$$

$$\text{Putting } x = 2, f(2) = -3 < 0$$

$$x = 3, f(3) = 13 > 0$$

Since, $f(2)$ is negative and $f(3)$ is positive, therefore the actual root lies between 2 & 3.

First, we choose $x_0 = 3$. Now, using the relation

$$x_{n+1} = x_n - \frac{f(x)}{f'(x)}$$

Solutions To Problems On The Newton Raphson Method

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Solutions To Problems On The Newton Raphson Method:

This book delves into Solutions To Problems On The Newton Raphson Method. Solutions To Problems On The Newton Raphson Method is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Solutions To Problems On The Newton Raphson Method, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Solutions To Problems On The Newton Raphson Method
 - Chapter 2: Essential Elements of Solutions To Problems On The Newton Raphson Method
 - Chapter 3: Solutions To Problems On The Newton Raphson Method in Everyday Life
 - Chapter 4: Solutions To Problems On The Newton Raphson Method in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Solutions To Problems On The Newton Raphson Method. This chapter will explore what Solutions To Problems On The Newton Raphson Method is, why Solutions To Problems On The Newton Raphson Method is vital, and how to effectively learn about Solutions To Problems On The Newton Raphson Method.
 3. In chapter 2, this book will delve into the foundational concepts of Solutions To Problems On The Newton Raphson Method. The second chapter will elucidate the essential principles that need to be understood to grasp Solutions To Problems On The Newton Raphson Method in its entirety.
 4. In chapter 3, this book will examine the practical applications of Solutions To Problems On The Newton Raphson Method in daily life. The third chapter will showcase real-world examples of how Solutions To Problems On The Newton Raphson Method can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Solutions To Problems On The Newton Raphson Method in specific contexts. The fourth chapter will explore how Solutions To Problems On The Newton Raphson Method is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Solutions To Problems On The Newton Raphson Method. 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 Solutions To Problems On The Newton Raphson Method.

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