(Fixed-Point Iteration). All numerical answers should be rounded to 7-digit floating-point numbers. Given a real number z, the symbol  $\widetilde{z}$  denotes the result of rounding of z to a 7-digit floating point number.

Consider the polynomial

$$f(x) = x^4 - 0.99x - 1.21$$
.

In what follows, we will to apply the Fixed-Point Iteration (FPI) method to approximate a unique root of the function f(x) in [1, 2].

(i) (a) Show that

$$x^4 - 0.99x - 1.21 = 0 \iff x = \sqrt[4]{0.99x + 1.21}$$

for all  $x \in [1, 2]$ , thereby obtaining a reduction to a fixed-point problem for the (iteration) function

$$g(x) = \sqrt[4]{0.99}x + 1.21$$

on [1, 2].

(b) Clearly, the function g(x) is strictly

•

on [1, 2]. Accordingly, for every  $x \in [1, 2]$ ,

$$g(?_1) \le g(x) \le g(?_2),$$

where

$$\begin{bmatrix} ?_1 \end{bmatrix} =$$
 and  $\begin{bmatrix} ?_2 \end{bmatrix} =$ 

(please enter suitable points/numbers of the interval [1, 2]) and

$$g(\boxed{?_1}) \doteq$$
 and  $g(\boxed{?_2}) \doteq$ 

(c) Does the argument in (b) imply that the function g(x) takes the interval [1, 2] into itself?

# **Guided Project 7 Fixed Point Iteration Answers**

Siddappa N.Byrareddy

**Guided Project 7 Fixed Point Iteration Answers:** 

The book delves into Guided Project 7 Fixed Point Iteration Answers. Guided Project 7 Fixed Point Iteration Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Guided Project 7 Fixed Point Iteration Answers, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Guided Project 7 Fixed Point Iteration Answers
  - Chapter 2: Essential Elements of Guided Project 7 Fixed Point Iteration Answers
  - o Chapter 3: Guided Project 7 Fixed Point Iteration Answers in Everyday Life
  - Chapter 4: Guided Project 7 Fixed Point Iteration Answers in Specific Contexts
  - ∘ Chapter 5: Conclusion
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- 3. In chapter 2, this book will delve into the foundational concepts of Guided Project 7 Fixed Point Iteration Answers. The second chapter will elucidate the essential principles that must be understood to grasp Guided Project 7 Fixed Point Iteration Answers in its entirety.
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- 6. In chapter 5, this book will draw a conclusion about Guided Project 7 Fixed Point Iteration Answers. The final chapter will summarize the key points that have been discussed throughout the book.
  - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Guided Project 7 Fixed Point Iteration Answers.

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