



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

# Numerical solutions of equations

You can solve equations of the form  $f(x) = 0$  using the Newton-Raphson process

Use the Newton-Raphson process to find the root of the equation:

$$x^4 + x^2 = 80$$

Use  $x_0 = 3$  and give your answer to 2 decimal places.

$$f(x) = x^4 + x^2 - 80$$

$$f'(x) = 4x^3 + 2x$$

$$x_0 = 3$$

$$x_1 = 2.912$$

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

$$x_1 = x_0 - \frac{(x_0)^4 + (x_0)^2 - 80}{4(x_0)^3 + 2(x_0)}$$

$$x_1 = 3 - \frac{(3)^4 + (3)^2 - 80}{4(3)^3 + 2(3)}$$

$$x_1 = 2.912$$

Our current approximation is  $x_0$ . replace the fraction with equivalent expressions

Sub in  $x_0 = 3$

Calculate

# Numerical Solution Of Systems Of Nonlinear Algebraic Equations

**DJ Losen**



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## **Table of Contents Numerical Solution Of Systems Of Nonlinear Algebraic Equations**

1. Understanding the eBook Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - The Rise of Digital Reading Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - 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 Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Personalized Recommendations
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations User Reviews and Ratings
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations and Bestseller Lists
5. Accessing Numerical Solution Of Systems Of Nonlinear Algebraic Equations Free and Paid eBooks
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations Public Domain eBooks
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations eBook Subscription Services
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations Budget-Friendly Options

6. Navigating Numerical Solution Of Systems Of Nonlinear Algebraic Equations eBook Formats
  - ePub, PDF, MOBI, and More
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations Compatibility with Devices
  - Numerical Solution Of Systems Of Nonlinear Algebraic Equations Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Highlighting and Note-Taking Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Interactive Elements Numerical Solution Of Systems Of Nonlinear Algebraic Equations
8. Staying Engaged with Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Numerical Solution Of Systems Of Nonlinear Algebraic Equations
9. Balancing eBooks and Physical Books Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Numerical Solution Of Systems Of Nonlinear Algebraic Equations
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Setting Reading Goals Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - Fact-Checking eBook Content of Numerical Solution Of Systems Of Nonlinear Algebraic Equations
  - 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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