

36. The roots of a cubic equation $a_3x^3 + a_2x^2 + a_1x + a_0 = 0$ can be calculated using the following procedure:

Set: $A = a_2 / a_3$, $B = a_1 / a_3$, and $C = a_0 / a_3$.

Calculate: $D = Q^3 + R^2$,

where $Q = (3B - A^2) / 9$ and $R = (9AB - 27C - 2A^3) / 54$.

If $D > 0$ the equation has complex roots.

If $D = 0$ all roots are real and at least two are equal. The roots are given by:

$x_1 = 2\sqrt[3]{R} - A/3$, $x_2 = -\sqrt[3]{R} - A/3$, and $x_3 = -\sqrt[3]{R} - A/3$.

If $D < 0$ all roots are real and are given by:

$x_1 = 2\sqrt[3]{-Q \cos(\theta/3)} - A/3$, $x_2 = 2\sqrt[3]{-Q \cos(\theta/3 + 120^\circ)} - A/3$, and

$x_3 = 2\sqrt[3]{-Q \cos(\theta/3 + 240^\circ)} - A/3$, where $\cos \theta = R / \sqrt[3]{-Q^3}$.

Write a MATLAB program that determines the real roots of a cubic equation. As input the program asks the user to enter the values of a_3 , a_2 , a_1 , and a_0 as a vector. The program then calculates the value of D . If the equation has complex roots the message "The equation has complex roots" is displayed. Otherwise the real roots are calculated and displayed. Use the program to solve the following equations:

(a) $5x^3 + -34.5x^2 + 36.9x + 8.8 = 0$ (b) $2x^3 + -10x^2 + 24x - 15 = 0$

(c) $2x^3 + -1.4x^2 - 20.58x + 30.87 = 0$

Solution

Script File:

```
v=input('Enter the values of a3, a2, a1, and a0 as a
vector: ');
a=v(2)/v(1); b=v(3)/v(1); c=v(4)/v(1);
Q=(3*b-a^2)/9;
R=(9*a*b-27*c-2*a^3)/54;
D=Q^3+R^2;
if abs(D)<0.01
    D=0;
end
if D > 0
    disp('The equation has complex roots.')
elseif D ==0
    S=nthroot(R,3);
    x1=2*S-a/3;
    x2=-S-a/3;
```

Matlab Solutions For Chapter 5

Peipei Pang



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Table of Contents Matlab Solutions For Chapter 5

1. Understanding the eBook Matlab Solutions For Chapter 5
 - The Rise of Digital Reading Matlab Solutions For Chapter 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Solutions For Chapter 5
 - 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 Matlab Solutions For Chapter 5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Solutions For Chapter 5
 - Personalized Recommendations
 - Matlab Solutions For Chapter 5 User Reviews and Ratings
 - Matlab Solutions For Chapter 5 and Bestseller Lists
5. Accessing Matlab Solutions For Chapter 5 Free and Paid eBooks
 - Matlab Solutions For Chapter 5 Public Domain eBooks
 - Matlab Solutions For Chapter 5 eBook Subscription Services

- Matlab Solutions For Chapter 5 Budget-Friendly Options
- 6. Navigating Matlab Solutions For Chapter 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Matlab Solutions For Chapter 5 Compatibility with Devices
 - Matlab Solutions For Chapter 5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab Solutions For Chapter 5
 - Highlighting and Note-Taking Matlab Solutions For Chapter 5
 - Interactive Elements Matlab Solutions For Chapter 5
- 8. Staying Engaged with Matlab Solutions For Chapter 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab Solutions For Chapter 5
- 9. Balancing eBooks and Physical Books Matlab Solutions For Chapter 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab Solutions For Chapter 5
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matlab Solutions For Chapter 5
 - Setting Reading Goals Matlab Solutions For Chapter 5
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matlab Solutions For Chapter 5
 - Fact-Checking eBook Content of Matlab Solutions For Chapter 5
 - 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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