

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:

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

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

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

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

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:

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

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

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

Yicheng Fang



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web christine merz chefredakteurin der zeitschrift kindergarten heute hat zahlreiche bilder und kinderbücher veröffentlicht zuletzt bei herder erschienen das große durcheinander gutes benehmen ist hüpfleicht und lea wirbelwind träumt sich davon der klapptext des buches lea möchte unbedingt ein meerschweinchen

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web lea wirbelwind liebt ihren kindergarten schließlich gehört sie jetzt schon zu den großen und hat die meisten dinge voll im griff wie sie mit freude und einsatzbereitschaft durch ihre kleinen abenteuer schlittert erzählt dieses schöne vorlesebuch das neue große buch von lea wirbelwind 5 minuten - Feb 12 2023

web seit die autorin christine merz lea wirbelwind erfunden hat lässt dieses quirlige mädchen der ehemaligen chefredakteurin von kindergarten heute keine ruhe mehr nun hat die autorin leas neue abenteuer endlich aufgeschrieben betina gotzen beek geboren in mönchengladbach