36. The roots of a cubic equation α₃x⁵ + α₃x² + α₃x + α₆ = 0 can be calculated using the following procedure:

Set: $A = \alpha_2 / \alpha_3$, $B = \alpha_1 / \alpha_3$, and $C = \alpha_0 / \alpha_3$.

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 p = 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:

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

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

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_1 , a_2 , a_1 , and a_3 as a vector. The program then calculates the value of D. If the equations 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;

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Sebastian Brünink

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