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Chemical Engineering

Engineering Mathematics Assignment 4

1. commandwindow
2. clear
3. clc
4. A=[1 -2 -1 3;2 3 0 1;1 0 -4 -2;0 -1 3 1]
5. eig(A)

Output

A =1 -2 -1 3

2 3 0 1

1 0 -4 -2

0 -1 3 1

ans = 2.4323 + 2.2437i

2.4323 - 2.2437i

-1.9323 + 1.7651i

-1.9323 - 1.7651i

From the result obtained, it shows that the system is unstable because positive values were obtained