ELUWA TOCHUKWU DIVINE

17/ENG07/010

PETROLEUM ENGINEERING

ENG 281 ASSIGNMENT 4

Commandwindow

Clear

clc

a=[1 -2 -1 3; 2 3 0 1; 1 0 -4 -2; 0 -1 3 1]

eig(a)

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

The system is unstable

It is unstable because the eigenvalues are a combination of both positive and negative values