(2)

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

ii) THE SYSTEM OF THE EIGENVALUES IS **UNSTABLE.**

THIS IS BECAUSE NOT ALL THE EIGENVALUE ARE OF THE SAME OPERATION(SIGN).