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MATRIC NO: 17/ENG02/061

DEPARTMENT: COMPUTER ENGINEERING

SCRIPT

commandwindow

clear

clc

close all

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

eigenvaluesofA = eig(A)

OUTPUT

A =

 1 -2 -1 3

 2 3 0 1

 1 0 -4 -2

 0 -1 3 1

eigenvaluesofA =

 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 not completely negative,**

**2.4323, + 2.2437i, 2.4323, + 1.7651i are positive eigenvalues .**