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**PETROLEUM ENGINEERING**

**17/ENG07/003**

commandwindow

clear

clc

close all

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

b = [10; 8; 3; 7]

eig(a)

a =

 1 -2 -1 3

 2 3 0 1

 1 0 -4 -2

 0 -1 3 1

b =

 10

 8

 3

 7

ans =

 2.4323 + 2.2437i

 2.4323 - 2.2437i

 -1.9323 + 1.7651i

 -1.9323 - 1.7651iThe eigen values are unstable because they have different signs ir polarities.