

Homework 8 (due Dec 04)

1. Using the function eigshow provided with the book, answer the following questions for the different 2×2 matrices that are displayed in the drop down box

Which matrices are singular?

Which matrices have complex eigenvalues?

Which matrices have double eigenvalues?-

In each case answer why, and comment on the graphical picture these matrices produce?

2. Do problem 10.1

3. Read Section 10.11 and understand it. Then do problem 10.12

4. Do problem 8.1 and 8.8