

Eighth Homework Assignment for Math 232 (D200)

Due: Friday, November 20th.

All section references are to the Lay text.

Problems to hand in:

Section 3.1 problems 14, 24

Section 3.2 problems 10, 22, 40

Section 3.3 problem 20

Section 5.1 problems 6, 14, 32

Consider the matrix: $M = \begin{bmatrix} a & -1 \\ 1 & 0 \end{bmatrix}$.

For what values of a does M have two distinct real eigenvalues?

For what values of a does M have exactly one eigenvalue?

Some other problems you might try:

More true-false: Section 3.2 problems 27 and 28, Section 5.1 problems 21 and 22 and Section 5.2 problems 21 and 22.

Reading for the next week:

For Wednesday, Sections 5.3 and 5.4.

For Friday, Section 5.5.