

Tenth Homework Assignment for Math 232 (D200)

Due: Wednesday, November 29nd.

All section references are to the Lay text.

Reminder:

The final exam is **Saturday, December 16th** from 15:30 to 18:30. It will be held in Room 3090 at the Surrey campus and covers everything we have studied.

Problems to hand in:

- Section 6.1 problems 24, 28
- Section 6.2 problems 10, 14, 34
- Section 6.3 problems 4, 10, 14, 18
- Section 6.4, problem 10.

Some other problems you might try:

True-false questions can help you think about the reading. Try Section 6.1, 19-20, Section 6.2, 23-24, Section 6.3, 21-22, Section 6.4, 17-18, Section 6.5, 17-18 and Section 7.1, 25-26.

Remaining readings:

- For Friday, through Section 6.3.
- For Monday, Section 6.4.
- For Wednesday, Section 6.5.
- For Friday December 1st, Section 7.1.

(Optional) Section 7.2 introduces quadratic forms, which we will not have time to cover. Section 7.3 applies quadratic forms to optimization problems. Section 7.4 describes the singular value decomposition, a very useful matrix factorization. Finally, Section 7.5 discusses applications to image processing and statistics. If you haven't had enough linear algebra this term, these readings can carry you through the holidays until classes start again in January.