

Reminder: No Class Monday, January 7 or Wednesday, January 9!

No Office Hours Monday, January 7 or Wednesday, January 9!

Regular Office Hours resume Friday, January 11

Special Review Session, Office Hours Friday, January 11, 3:00–4:15!

Syllabus and Friday location announced on the website for the course:

<http://www.math.iupui.edu/~ccowen/Math390.html>

Math 390 (Cowen)

Due January 14

Homework 1

Review the Syllabus, especially parts concerning tests, homework, quizzes.

Read: Text, Chapter 1 (section 2 is review of Math 351/511).

Read: Text, Chapter 3, sections 1 – 4 (review of Math 351/511).

1. Text, section 1.3, page 37, exercises 1, 2, 4, 5.
2. Text, section 3.2, page 125, exercises 3, 4, 7, 8, 12, 13, 14. You need to justify (i.e. prove) your answers, for example, in Exercises 7 and 8, you need to explain why *every* vector in the nullspaces are linear combinations of the vectors in your “spanning set”.
3. Text, section 3.3, page 135, exercises 3, 4, 5, 9, 10, 13. You need to justify your answers, for example, in Exercise 13, you need to explain why each set you claim is basis both is linearly independent and spans the relevant subspace.
4. Text, section 3.4, page 135, exercises 1, 2, 3, 4, 6, 7, 9, 10, 13. You need to justify your answers.