

Matrices & Linear Algebra I  
C Term, Sections C01-C04  
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## **Week 7: Reading and Exercises**

### **Reading**

Please read Sections 6.5, 6.6, 6.7 and 8.1 this week. Even before the snowstorm, we were behind last year's class. Now we will have to work hard to cover the basic concepts of eigenvalues and eigenvectors. But we can't include Chapter 8 on Test 3 (at least not explicitly). The lectures after the test will therefore be very important to anyone who wants to finish the course with a solid but very basic foundation in linear algebra. I won't be testing you on Chapter 8, so it will have to be your maturity that brings you to learn this last portion of the course.

### **Practice Exercises**

NOTE: Do not hand in.

Here are some practice problems to work on at home. There are many interesting problems, but I've narrowed down the scope to topics I think will prepare you to do well on the final test.

If you have any questions about these problems, please discuss them in conference or come see me.

- page 272-4, # 1-21 (odd), 29, 35, T.3, T.4, T.12, T.13
- page 282-3, # 1, 5, 7, 11, 13, 17, 19, T.1
- page 303-4, # 1, 3, 5, 11, 13
- page 354-5, # 1, 7, 9, 15, 17, T.6