

## MAT 320 Assignment List (Spring 2009 directed study)

- 1.1 1–11 odd, 15, 17, 19, 23, 24, 25, 27, 29, 31; read 13, 14
- 1.2 1, 8, 11, 13, 15 (for 9, 11), 17, 19, 21; read 23  
hand in TBA
- 1.3 1–9 odd, 13, 15, 19–31 odd, 35, 38a; read 37, 39, 40  
hand in TBA
- 1.4 1, 3, 5, 6, 9–25 odd; read 7, 27, 30a-d, 32  
hand in TBA
- 1.5 1, 3, 5, 6, 7, 11–25 odd, 29  
hand in TBA
- 2.1 1–25 odd, 27 using *Mathematica*  
hand in TBA
- 2.2 3–11 odd, 13ab, 15, 17, 18a, read 18c, ask *Mathematica* to find  $\lim_{x \rightarrow 0} \frac{1}{x}$ , and consider the result.
- 2.3 1, 2, 3–17 odd; read 18  
hand in TBA
- 2.4 1–11 odd, 19a, 21; read 15b  
hand in TBA
- 2.5 1, 3, 7, 9abc (read 9d), 11, 17; read 13
- Test 1
- 3.1 1–17 odd, 23  
hand in TBA
- 3.2 1–15 odd, 19, 23, 25, 27  
hand in TBA
- 3.3 1, 3, 5–8, 11, 15, 19
- 3.4 1–17 odd, 22, 25, 27, 29  
hand in TBA
- 3.5 3–10, 11, 13; read 14
- 3.6 1–8, 13, 16, 17, 19, 21, 23; read 15, 26
- 3.7 1, 2a, 4–7, 9, 12, 13, 19
- 3.8 1–17 odd, 21, 25, 27; read 19
- 4.1 2, 3, 4 (use table of integrals), 5, 6 (read 1 first), 7
- 4.2 1, 5, 7, 9, 10, 11, 13; read 17a  
hand in TBA

- 4.3        2–5, 7, 9, 17, 18, 19, 21, 23; read 11  
            hand in TBA
- 4.4        1, 3, 4, 5, 7, 8, 9–19 odd; read 18  
            hand in TBA
- 4.5        3–13 odd, 14, 15a, 16a, 19a (read 19b), 22, 25b; read 24a
- Test 2
- 4.6        1, 3, 9, 10, 11, 15; read 7a, 18
- 5.1        1, 3, 5, 7b, 9, 11, 13, 15, 19
- 5.appendix        2, 3a, 4, for fun 5
- 5.2        1–9 odd, 13, 14
- 5.3        1–5
- 5.4        1–9 odd, 12, 13–25 odd; read 31
- 5.6        1, 2, 3, 5, 7, 9, 15, 20; read 26
- 6.1        1–8

CUMULATIVE FINAL EXAM over all sections covered.

### Studying Mathematics

**Studying mathematics is different** from studying many of the other subjects. Some memorization is necessary, but concepts and skills are more important. Therefore, the study strategy employed by many students of doing little if anything until the night before a test and then cramming until the wee hours of the morning does not work very well for mathematics.

**Mathematics is best learned slowly but consistently over time**, not crammed into one night. Concepts and skills build upon one another. It is important to be prepared for each lecture; otherwise, you may not get anything out of that class period!

Recommendations include (1) read each section of the textbook before the lecture; (2) complete the assigned homework after the lecture over that material but before the next class period; and (3) get plenty of rest before a test so that your mind can think clearly.

Finally, don't forget that problem recognition skills are important. Look at the form of a problem, and its setting; learn how to recognize it.