Work the problems listed on the second page. This homework is worth 10 points total. Only one or two problems will be selected for grading.

Note the following rules: You will lose points if you do not follow them.

(1) Homework is due at the beginning of class on the due date given above. You must be physically present to hand in your solutions, and you must not leave after handing them in until class is over. Late homeworks will not be accepted.

(2) You must sign and staple this sheet to the front of your homework.

(3) You must write your solutions LEGIBLY on the FRONT side of each page only.

(4) You may work together with other people in the class, but you must each write up your solutions independently.

(5) You must SHOW COMPLETE WORK for each problem. For example, if the answer to a problem is "3" and you only write down "3" then you will get no credit for that problem. You must clearly show WHY the answer is "3" or show HOW you found out that the answer is "3."

Name (printed): _____

Name (sign): _____
By signing you acknowledge that you have read and understood the instructions above.

In the space below, identify any students that you worked with on this homework set or any other help that you received (e.g., "Math Lab").

5.1 #1 If True, give a short explanation or a pointer to the correct place in the text where that question is dealt with (e.g., "Theorem n"). If False, give one specific counterexample or an explanation or a pointer to the text. Note that "True" means ALWAYS TRUE, while an answer of "sometimes true and sometimes false" counts as False.

5.1 #12

5.1 #44

5.2 #4

5.2 #28

5.3 #14

5.3 #20

5.3 #46

5.3 #52

Chapter 5 Review Exercises #26

<u>Recommended Problems</u>
Suggested problems that you should try on your own are listed on the course webpage (go to `http://www.math.gatech.edu/~heil`). Those problems are intended to help you prepare for the exams, and you do not need to turn them in.