Math 242, Fall 2003 Worksheet 2

Test 2 will be on Thursday, November 13, at the usual time and place. The following list of examples and exercises represents very well the material that will be covered by the test. For each section, first are listed the typical examples which illustrate the basic ideas of that section. They are followed by a short list of problems that you can (and should) use to practice. The problems in parenthesis are similar to the one immediately preceding them and are provided for additional exercise only. For instance, 3(5,7) means that you should attempt problem 3 first and if you feel you need to practice more of this particular type of problem you could try also problems 5 and 7.

4.2: examples: 1; exercises: 1(3,9), 11(13);

4.3: examples: 1,2,3,4; exercises: 15(23,25), 31(33,34), 35, 37(40);

4.4: examples: 1,2,3,4,5,6,7,8,9,10,11; exercises: 1(3,5), 7(11), 13(15), 17, 19, 23(21), 27(29), 31(28,30), 36, 37(38);

4.6: examples: 1,2, or the examples from class; exercises: 1, 3, 5, 9, 11, 13, 15, 19(21);

7.1: examples: 1,2,3,4,5; exercises: 3(5,1), 25(23,29), 37;

7.2: examples: 1,2,3,4,5; exercises: 3(1), 5(6), 7, 9, 11(13), 15, 17(19), 23(25), 27(29), 36(38), 39(40);

7.3: examples: 1,2,3,4,5,6,8; exercises: 5(3,1), 9(7), 11, 13(15), 17, 19, 22, 24, 29, 41(39), 45(47,43), 65(64,63), 66, 67(68), 69, 70;

7.4: examples: 1,2,3,5,6; exercises: 5(6,4,1), 9(7), 13(15,16), 17(11), 27, 28, 29(30), 31, 32, 35(37), 36(38,40), 39, 41(42), 43(44);

7.5: examples: 1; exercises: 3(7,9,10), 11(12).

You will be allowed to use a COPY of the table of integrals from the end of the textbook, a COPY of the table of Laplace transform formulas from the beginning of the textbook, and the table of additional Laplace transform formulas that I prepared. The last two tables can be printed from the course's website.