

Math 242, Fall 2003 Worksheet 1

Test 1 will be on Thursday, September 25, at the usual time and place. The following is a list of examples and exercises which very well represent 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 exercise. The problems in parenthesis are similar to the one immediately preceding them and are provided for additional exercise only. For instance, 3(5,7,9) means that you should attempt number 3 first and if you feel you need to exercise more on this particular type of problem you could try also number 5, 7, and 9.

- 1.2: examples: 1,2,3,4; exercises: 1,3(5,7,9),13(15,17,19),21(23);
- 2.1: examples: 1,2,3,4,5; exercises: 1(3),15,17(19,21,23);
- 2.2: examples: 1,2,3,4; exercises: 1,3,5,7,9,13,19,21,23(25),29(a);
- 2.3: examples: 1,2,3,4,5,6; exercises: 3,5,7,9(11,13),17,19,23,25(29),33;
- 2.4: examples: 1,2,3,4; exercises: 1(3,5,7),9,11,13,15(19),21(23,25),27,31,33,35,37;
- 2.5: examples: 1,2,3; exercises: 1(3,5),7,9,11(13),15,17(19),21,23(25),29;
- 3.1: examples: 1,2,3,4,6; exercises: 1,3(5),7(9),11,13(15),23(25),29.

It will be very appropriate for you to review the basic integrals (integrals of polynomials, trigonometric functions, e^x , $\frac{1}{x}$, etc.) and integration techniques (u-substitution, by parts, partial fractions).

Also, make sure that you know how to do the homework problems that have been assigned so far.