Fundamentals of Calculus II, MATH 20   **Instructor: Dr. T.I. Lakoba**

Preparation sheet for Test 1

Problems on this Test will be based on the homework problems listed below.

Note 1: The notation, e.g., 2.1.3, means 'Problem 3 of Sec. 2.1'.
Note 2: You should check the original homework assignment for Hints or Notes for any of the problems listed below with an asterisk (e.g., 3.2.1*). Some problems have more than one Hint or Note, so make sure to *find and use all of them*.
Note 3: A problem on the Test may combine concepts of two problems listed on this sheet, or it may use only part of the solution of a given homework problem.

When preparing for the Test, it will be beneficial for your performance if you **redo** the problems listed below, and also review the related examples in the notes and in the book. Please **note**: It will **not help you much** if you simply browse those problems **without actually doing them**.

On this Test, use of calculators will be allowed.
Moreover, you will either need a graphic calculator or should be able to sketch parabolas of the form $y = x^2 - ax$, as well as straight lines with given slopes and intercepts.
Recall that while you can use a calculator for graphing or arithmetic, you **must** put all logical steps of your work on paper to earn credit.

You may prepare and use one double-sided sheet with formulae.

1. **HW 1**: ## 5.1.$\{49, 67, 69, 44^*\}$.

2. **HW 4**: Review Exercises for Chap. 6: # 23, Word Problem 1.

3. **HW 5**: ## 6.2.$\{45, 47, 51\}$, Word Problem 1*.

4. **HW 8**: ## 6.3.$\{21, 42^*, 54^*, 55\}$.

5. **HW 10**: ## 11.1.$\{23, 55, 70^*\}$.