

Preparation sheet for Test 2

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

Note 1: You should check the original homework assignment for Hints or Notes for any of the problems listed below with an asterisk (e.g., 2*). Some problems have more than one Hint or Note, so make sure to *find and use all of them*.

Note 2: If an even-numbered problem does not have an answer listed on the homework webpage, then it must be a WebAssign problem, and the answer should be found there.

Note 3: A problem on the Test may combine concepts of more than one problems listed on this sheet, or it may use only part of the solution of a given homework problem.

Note 4: Groups of problems from the same section that may pertain to different test problems are separated by a space.

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.

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

1. Sec. 14.3: ## 2, 72*, 73*; and Review Exercises at the end of Chap. 14: # 11*(a,c).

Note 1: I recommend that you start by reviewing the example with a table at the beginning of Sec. 14.3 of the textbook and Examples 3 in both book and notes for Sec. 14.4 (*not* 14.3). After that, you should focus on the listed problems for Sec. 14.3.

Note 2: The book uses the average of forward and backward slopes. On the test, you will need to compute only forward slopes (to save time).

2. Sec. 14.4: ## 31*, 41, 48, 50, and Word Problems 1*, 2*, 3*. *Note:* You will be allowed to *use* the formula derived in Ex. 5 in the notes *without* having to derive it. Yet, even though you will not need to derive it, you *will have to explain* why you are justified to use that formula.
3. Sec. 14.5: ## 43, 47*; and Review Exercises at the end of Chap. 14: # 40*.
4. Sec. 14.6: ## 30, 31, 33(b); and Review Exercises at the end of Chap. 14: ## 44*(a,b), 48*.
5. Sec. 14.7: ## 5; and Review Exercises at the end of Chap. 14: ## 52*, 53.

Note about ## 14.3.2 and 14.6.30: For answers, you should review their corresponding WebAssign versions — # 2 in WA-HW 13 and # 10 in WA-HW 16.