Preparation sheet for the Final Test  (Fall 2011)

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∗).

Note 2: 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 3: Groups of problems from the same section that may pertain to different test problems are separated by a space.

When preparing for the Test, you need to redo the problems listed below and also review the related examples in the notes and in the book. To rephrase this: It will not help you much if you simply browse those problems without actually doing them.

The standard disclaimer applies:
This list of problems is not meant to be exhaustive. Rather, it is meant only to help you pay special attention to specific concepts. As for any test, you are expected to know all concepts that have been covered in the course, unless it is noted otherwise below.

On this Test, use of calculators will be allowed.
You may also prepare and use two double-sided sheets with formulae.

2. Sec. 12.5: ## 33, 61; 67∗, 68∗.
3. Sec. 12.6: ## 1, 5.
4. Sec. 13.1: ## 25 (do it along with the problems for item 15 below).
5. Sec. 13.3: ## 17(a), 19(a). For both problems, also sketch ⃗T and ⃗N.
6. Sec. 13.4: Review pp. 842, 843. Do ## 3, 5, 33. For # 33, also sketch aT ⃗T and aN ⃗N.
7. Sec. 14.2: ## 11, 12, 13, 22.
8. Sec. 14.4: ## 19, 20, 21. For # 20, you do not need to make a plot.
9. Sec. 14.5: ## 7, 9, 10, 14, 45(a).
11. Sec. 14.7: ## 33∗, 34.
12. Sec. 15.4: ## 14, 17, 32.
13. Sec. 15.7: ## 9(b), 24(a)*.

14. Sec. 15.9: ## 8*, 9, 15.

15. Sec. 16.6: Review Examples 1, 2, 3 in the Notes for this section. Do ## 4, 6, 25, 54(b)*, 55(a), 56(a)*.

16. Sec. 16.5: ## 1, 2, 3, 12.

17. Sec. 16.2: ## 34*, 36*; 7; 45(a).

18. Sec. 16.3: ## 3, 4, 5, 13, 15, 21; 33.

19. Sec. 16.4: ## 2, 3, 5, 6, and # 38* on p. 1108.

20. Sec. 16.6\textsuperscript{1}: ## 40, 46, 54(a)* (these problems are needed in connection with the next item).

21. Sec. 16.7: Do the entire HW assignment for this section.

\textsuperscript{1}yes, 16.6 again