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.

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**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.**

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**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 one double-sided sheet with formulae.


2. Sec. 13.3: ## 17*, 19*, 21; 33, and # 12* on p. 850. You must also review Ex. 2 in the notes for this section (this example was about curvature of an ellipse and about related osculating circles).

3. Sec. 13.4: ## 3, 5, 6; 33, 35, 39*, and # 8(b)* on p. 849.

4. Sec. 14.3: ## 3, 69, and # 11(a,c)\(^1\) on p. 945.

5. Sec. 14.4: ## 33, 41, and Word Problems 1*, 2*, 3*.

6. Sec. 14.5: ## 39, 42, 44.

7. Sec. 14.6: ## 21, 25, 26; 39(a), 40(a), 43(a), 52, 53.

8. Sec. 14.7: ## 5, 7, 8, 16, 22.

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\(^1\)This problem was not assigned in the Homework. However, I decided to include it in this preparation sheet because it illustrates the same concept as the other two problems from Sec. 14.3 and hence gives you more opportunity to practice before the test.