

Practice Problems 7 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)

Any of these problems that might appear on a quiz, assessment, or the final exam. You will be expected to show your work, write in complete sentences, and explain your reasoning clearly.

Important. When doing related rates problems you are **required to draw and label a suitable picture** when appropriate to the problem.

- (a) What is L'Hôpital's Rule? What hypothesis is required to use it?
- (b) Give an example, where it looks like L'Hôpital's Rule should work – but where the hypothesis for L'Hôpital's Rule isn't satisfied and the rule gives the wrong answer.
- (c) Thomas, 4.5, 7-66.