

**Practice Problems 9 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)**

1. Thomas, Ch. 4.6, 1-38 (excluding 16-18, 20b, 21b).
2. What is l'Hôpital's Rule? What hypothesis is required to use it?
3. 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.
4. Thomas, Ch. 4.5, 7-68. (The instructions say to use l'Hôpital's Rule; on the exam, these problems will just ask you to find the limit by any means that work.)