

Math 555 Homework # 3

Zoidberg

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Hello, earthlings! I'm a bit frightened at this week's assignment! But that shouldn't stop you from figuring it all out and giving me the answers! Corey wanted to assign A LOT of problems this week from page 100: 2-4, 6-9, 11, 12, 19, 20, and especially 21. But I talked him down to a proper (nonempty) subset of those, listed below. This assignment will be due on the day of the midterm. This does NOT mean that only this material will be on the midterm, Corey will be sure to let you know more about that as the midterm nears. ROCK ON!

1. Please do problems 2, 3, 6, 11, 12, 20 starting on page 100. These are the only required problems.
2. For good (not required) practice, consider doing problems 4, 7-9, 19.
3. For good fun, and a good challenge (not required), try number 21 (b). Then try 21(a). Corey recalls this question being the first question asked to him when he took a 600 level topology course in graduate school. He also recalls how much time he spent on it—a lot. But he also recalls how fun it was to explore new ideas and to try to come up with the right answer by trying different pathologies (that is, trying to see what would happen given certain circumstances). I wonder what you'll remember after YOU try it?