Math 2D − Suggested Homework 4

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Note: This is an unusually long homework and covers many sections. I'll go through chapter 13 very quickly, but hopefully most of it should be review from Chapter 10 and I'll skip many parts.

Reading: Sections $13.1 - 13.4$, $14.1 - 14.2$. In 13.1, skip the section "Using Computers to Draw Space Curves," in 13.3, the only thing you need to know is the formula for arclength (Formula 2 on page 862), skip everything else, and in 13.4, skip everything after Example 3 (but know Example 3). Section 14.1 is important but has a ton of useless information, so you can skip most of the reading, **but** know how to do Examples 1, $4 - 6$, 8, $10 - 15$. In section 14.2, I will **NOT** ask you how to do an epsilon-delta argument, nor about parabolic directions (like Example 3), and you can skip the section on "Functions of Three or More Variables."

- **Section 13.1:** 1, 5, 12, 13, 17, 42, 45

- **Section 13.2:** 11, 17, 24, 35, 47

- **Section 13.3:** 1, 3

- **Section 13.4:** 10, 16

- **Section 14.1:** 16, 22, 24, 29, 31, 48, 67, 68, 71

- **Section 14.2:** 7, 9, 11, 13, 31, 38, 39, 40