

# Math 2D – Suggested Homework 7

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**Reading:** Sections 14.7 and 14.8. Those sections are one of the highlights of the course, so make sure to study them thoroughly! Don't worry about all the definitions and theorems; as long as you know the computations, you're fine! Also note that what the book calls the Second Derivatives Test, I call the Saddle Point test and the Second Derivative test (to make them *a bit* easier to remember). In section 14.8, ignore the section on "Two Constraints."

- **Section 14.7:** 5, 12, 17, 20, 32, 35, 42, 44, 47, 48, 50
- **Section 14.8:** 4, 6, 9, 11, 21, 29, 38, 40, 49 (only do it in the case  $n = 2$ )