

Math 126 End of Week 6 Newsletter

UPCOMING SCHEDULE:

Friday: Section 14.4/14.7 (Tangent Planes, Max/Min intro)
Monday: Section 14.7 (Max/Min)
Tuesday: Homework Q&A (ask lots of questions about 14.7!)
Wednesday: Section 15.1 (Intro to Double Integrals)
Thursday: Mini-lecture on mechanics of double-integrals and HW Q&A
Next Friday: Section 15.2 (Double over general regions)
HOMEWORK: Closing Tuesday: 14.3(2), 14.4 Closing Thursday: 14.7

POSTINGS: There are several new postings:

1. **Huge summary with fully worked out extra examples for 14.4 and 14.7:**

This review sheet has *full examples of every main concept from 14.4 and 14.7*, please check it out (Side note: we don't do total differential anymore in homework/tests, but I left an example in the review)

<https://sites.math.washington.edu/~aloveles/Math126Fall2018/14-4and14-7Examples.pdf>

2. **15.1 Overview:** <https://sites.math.washington.edu/~aloveles/Math126Fall2018/15-1Review.pdf>

3. **15.2/3 Overview** (includes practice problems on switching order of integration):

<https://sites.math.washington.edu/~aloveles/Math126Fall2018/15-2and15-3Review>

4. **15.2 Practice Describing Regions** (do this if you don't remember having to decide between dx and dy from Math 125)

Practice Problems: <https://sites.math.washington.edu/~aloveles/Math126Fall2018/15-2%20Practice.pdf>

Solutions: <https://sites.math.washington.edu/~aloveles/Math126Fall2018/15-2%20Practice%20Solns.pdf>

SUPPLEMENTAL POSTINGS ON INTEGRATION: You now need to remember how to integrate.

1. **Integrals you can quote in one step:**

<https://sites.math.washington.edu/~aloveles/Math126Spring2018/CalculusFactSheet2.pdf>

2. **Very Basic Integrals I expect you to be able to do** quickly (only require simplification or substitution)

<https://sites.math.washington.edu/~aloveles/Math126Spring2018/BasicIntegralPage.pdf>

Solutions: <https://sites.math.washington.edu/~aloveles/Math126Spring2018/BasicIntegralPageSolutions.pdf>

3. **Examples of Trig Integral Techniques** (you'll need this a lot in section 15.3):

<https://sites.math.washington.edu/~aloveles/Math126Spring2018/IntegratingPowersOfTrig.pdf>

4. See my website for a lot more practice if you need it!!!

OLD EXAMS:

For practice with 14.7:

Local Max/Min:

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14novikExII.pdf>

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14taggartExII.pdf>

Problem 2b from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr13lovelessExII.pdf>

Problem 2 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf>

Global Max/Min:

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14lovelessExII.pdf>

Problem 5 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14perkinsExII.pdf>

Problem 4a from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf>

Applied Max/Min:

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126win14bekyelExII.pdf>

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126aut12lovelessExII.pdf>

Problem 5 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr10lovelessExII.pdf>

For practice with 15.1 and 15.2:

Problem 1(a) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14perkinsExII.pdf>

Problem 3(a) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf>

Problem 2 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14lovelessExII.pdf>

Problem 1(b) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14perkinsExII.pdf>

Problem 4(a) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14taggartExII.pdf>

Problem 2(b) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126aut13lovelessExII.pdf>

I hope some of this helps.

- Dr. Andy Loveless