

Math 126 End of Week 6 Newsletter

UPCOMING ASSIGNMENTS

- *Closing Sun* (May 10th): Reading/Watching Quiz 4 (Ch. 14) on **Canvas**
- *Closing Tue* (May 12th): Exam 3 (on Ch. 14) on **Webassign** – same rules/timing as exam 2
- *Closing Thu* (May 14th): 15.1 HW on **Webassign**. (I advise you to do most of 15.2 by this date as well)
- *Closing Sun* (May 17th): Reading/Watching Quiz 5 (15.1/2 & integration) on **Canvas** (*available Thu*)

UPCOMING SCHEDULE:

Friday:	Live-Stream – 15.1/2 (Doubles Integrals)	- Watch 15.1 Before
Monday:	Live-Stream – Ch. 14 Exam Review	
Tuesday:	Exam 3 (on Ch. 14)	
Wednesday:	Live-Stream – 15.2 (Double Integrals over general regions)	- Watch 15.2 Before
Thursday:	Test Prep and Discuss HW with TA	
Next Friday:	Live- Stream – 10.3 (Polar Coordinates and Circular Regions)	- Watch 10.3 Before

POSTINGS: The website is here: <https://sites.math.washington.edu/~aloveles/Math126Spring2020/index.html>

There are several new postings:

1. 15.2 Practice Describing Regions:

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-2%20Practice.pdf>

Sol'ns: <https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-2%20Practice%20Solns.pdf>

2. 15.2 Practice Describing Regions and Setting Up Double Integrals:

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/Even%20more%2015-2%20Practice%20.pdf>

Sol'ns: <https://sites.math.washington.edu/~aloveles/Math126Spring2020/Even%20more%2015-2%20Practice%20-%20Solutions.pdf>

3. 15.2 and 15.3 Overview (includes practice problems on switching order of integration, solutions included):

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-2and15-3Review.pdf>

4. 10.3 Overview with Examples (polar coordinates)

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/Polar%20Coordinates%20Overview.pdf>

5. Trig review (for anyone that doesn't remember their trig)

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/Trig%20Facts.pdf>

OLD EXAMS:

For practice with 15.1:

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>

For practice with 15.2:

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

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

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr13lovelessExII.pdf>

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

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr10lovelessExII.pdf>

For practice with 10.3 you might try:

Problem 4(a) from: <http://www.math.washington.edu/~aloveles/Math126Spring2019/sp11m126e1.pdf>

Problem 3(b) from: <http://www.math.washington.edu/~aloveles/Math126Spring2019/sp10m126e1.pdf>

Problem 4 from: <http://www.math.washington.edu/~aloveles/Math126Spring2019/Taggartf09e1.pdf>

For practice with 15.3:

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14lovelessExII.pdf>

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126aut13lovelessExII.pdf>

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

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr10lovelessExII.pdf>

I hope some of this helps. - Dr. Loveless

see the next page for links to integration review...

SUPPLEMENTAL POSTINGS ON INTEGRATION: You now need to remember how to integrate. You are expected to know all integration techniques from Math 125. If you have forgotten integration, then see my website for even more review of integration. Here are a few specific links you might find useful.

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

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/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/Math126Spring2020/BasicIntegralPage.pdf>

Solutions: <https://sites.math.washington.edu/~aloveles/Math126Spring2020/BasicIntegralPageSolutions.pdf>

3. **Full Review of Integration by parts:**

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/m307LaplaceIntegrationFacts.pdf>

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

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/IntegratingPowersOfTrig.pdf>

5. **Several examples of substitution, by parts, and partial fractions:**

<https://sites.math.washington.edu/~aloveles/Math126Spring2020/m307BasicIntegrationExamples.pdf>

6. Here is my flowchart on how to do all integration problems (from Math 125):

<https://sites.math.washington.edu/~aloveles/Math125Winter2019/Integration%20Methods%20Flowchart.pdf>

I have a ton more things here: <https://sites.math.washington.edu/~aloveles/Math125Fall2019/index.html>
(including lecture notes and explanations for each of these topics)