

## Math 126 End of Week 7 Newsletter

### UPCOMING SCHEDULE:

Friday: Section 15.1/15.2 (Intro to double integrals)  
Monday: Section 15.3 (Doubles Integrals over general regions)  
Tuesday: Mini-Lecture and Homework Q&A  
Wednesday: Section 15.4 (Double Integrals over polar regions)  
Thursday: Homework Q&A and Exam Review  
Next Friday: Section 15.5 (Double Integral Applications)

### HOMEWORK:

Closing Tuesday at 11pm: 15.1, 15.2  
Closing Thursday at 11pm: 15.3, 15.4

### PREVIOUS HOMEWORK STATS:

14.3(2): median score = 97%, median time browser open to assignment = 147 minutes  
14.4: median score = 100%, median time browser open to assignment = 88 minutes  
14.7: median score = 96%, median time browser open to assignment = 160 minutes

### NEW POSTINGS

Remember the course website is here: <http://www.math.washington.edu/~aloveles/Math126Winter2016/index.html>

There are several new postings:

1. **15.1 and 15.2 Overview:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp10m126week7reviewa.pdf>

2. **15.3 and 15.4 Overview** (includes practice problems on switching order of integration):

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp10m126week7reviewb.pdf>

3. **Exam 2 Quick Review:** (Ignore reference to 15.5 or center of mass, that won't be on our midterm)

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp13m126Exam2QuickReview.pdf>

4. **Exam 2 Conceptual Review:** (Ignore reference to 15.5 or center of mass, that won't be on our midterm)

<http://www.math.washington.edu/~aloveles/Math126Winter2016/Exam2SpecialComments.pdf>

### SUPPLEMENTAL POSTINGS ON INTEGRATION:

You now need to remember how to integrate. You are expected to know all integration techniques from Math 125.

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

<http://www.math.washington.edu/~aloveles/Math126Winter2016/7-5IntegralsWeKnow.pdf>

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

<http://www.math.washington.edu/~aloveles/Math126Winter2016/BasicIntegralPage.pdf>

**Solutions:** <http://www.math.washington.edu/~aloveles/Math126Winter2016/BasicIntegralPageSolutions.pdf>

3. **Examples of Trig Integral Techniques** (you'll need this in section 15.4):

<http://www.math.washington.edu/~aloveles/Math126Winter2016/IntegratingPowersOfTrig.pdf>

4. You should also review your other integration techniques, here are a few things to help you:

**Flowchart:** <http://www.math.washington.edu/~aloveles/Math126Winter2016/IntegrationMethods.pdf>

**Full Review:** <http://www.math.washington.edu/~aloveles/Math126Winter2016/IntegrationTechniques.pdf>

**11 Random Problems:** <http://www.math.washington.edu/~aloveles/Math125Winter2015/7-5IntegralsReview.pdf>

**Full Solutions:** <http://www.math.washington.edu/~aloveles/Math125Winter2015/7-5IntegralsReviewSolns.pdf>

**30 Random Problems:** <http://www.math.washington.edu/~aloveles/Math125Winter2015/30RandomIntegralsSolns.pdf>

## OLD EXAMS:

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>

For practice with 15.3:

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>

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 15.4:

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

Problem 4(b) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14taggartExII.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. Andy Loveless