

## Math 125 End of Week 6 Newsletter

### UPCOMING SCHEDULE:

Friday: Section 7.3 (Trig Substitution)  
Monday: Section 7.4 (Partial Fractions)  
Tuesday: HW Q & A (You should have lots of homework questions!)  
Wednesday: Section 7.5 (Summary of Integration)  
Thursday: Worksheet 7 – Integration Techniques Practice  
<http://www.math.washington.edu/~m125/Worksheets/IntegrationTechniques.pdf>  
Friday: Section 7.7 (Approximating Integrals)

Worksheet 5 (Integration by parts) Solutions: <http://www.math.washington.edu/~m125/outline5.php>

Worksheet 6 (Partial Fractions) Solutions: <http://www.math.washington.edu/~m125/outline6.php>

Note that the week 6 department outline contains extra practice problems and answers:

<http://www.math.washington.edu/~m125/outline6.php>

### HOMEWORK:

Closing Friday: HW\_5A, 5B (covers 7.1, 7.2)  
Closing Monday: HW\_5C (covers 7.3)  
Closing Wednesday: HW\_6A (covers 7.4)  
Closing Next Friday: HW\_6B, 6C (covers 7.5, 7.7)

### HOMEWORK COMMENTS AND HINTS:

On HW\_6A, 6B, 6C: Lots of practice with integration. Get to work and find where you are still having trouble!

### NEW POSTINGS

Here, again, is the course website: <http://www.math.washington.edu/~aloveles/Math125Winter2017/index.html>

You need to practice, practice, practice integrating. To help you do this, I have made several lists of practice problems:

#### 1. 30 Random Integrals Directly from Old Exams:

<http://www.math.washington.edu/~aloveles/Math125Winter2017/30RandomIntegralsFromOldSecondMidterms.pdf>

Comments and answers:

<http://www.math.washington.edu/~aloveles/Math125Winter2017/30RandomIntegralsSolns.pdf>

#### 2. 11 Practice Problems from an old lecture review (I gave this out in class with some review sheets):

<http://www.math.washington.edu/~aloveles/Math125Winter2017/7-5IntegralsReview.pdf>

Here are my full solutions:

<http://www.math.washington.edu/~aloveles/Math125Winter2017/7-5IntegralsReviewSolns.pdf>

#### 3. 12 Practice Problems that I wrote up a few years ago:

<http://www.math.washington.edu/~aloveles/Math125Winter2017/12IntegraleexamplesFirstPage.pdf>

Here are my full solutions:

<http://www.math.washington.edu/~aloveles/Math125Winter2017/12integraleexamplesSolns.pdf>

#### 4. Flowchart I created to organize the methods on one page (ONE OF MY MOST POPULAR REVIEW SHEETS):

<http://www.math.washington.edu/~aloveles/Math125Winter2017/Integration%20Methods%20Flowchart.pdf>

#### 5. A full review of all integration methods (ANOTHER POPULAR REVIEW SHEET):

<http://www.math.washington.edu/~aloveles/Math125Winter2017/IntegrationTechniques.pdf>

**OLD EXAMS:**

The math departmental exam 2 archive is here: <http://www.math.washington.edu/~m125/Quizzes/Q8.php>

My personal exam archive is here:

<http://www.math.washington.edu/~aloveles/Math125Winter2017/LovelessExamArchive.html>

Here are some targeted practice problems from old exams on the current material:

**for practice using Section 7.3 material (Trig Substitution):**

Problem 3: <http://www.math.washington.edu/~m125/Quizzes/week8/mid2a.pdf>

Problem 2: <http://www.math.washington.edu/~aloveles/Math125Spring2016/w15m125e2.pdf>

Problem 1b: [http://www.math.washington.edu/~m125/Quizzes/week8/win13\\_mid2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf)

Problem 2b: <http://www.math.washington.edu/~aloveles/Math125Spring2016/sp13m125e2.pdf>

Problem 3: [http://www.math.washington.edu/~m125/Quizzes/week8/aut15\\_burdzy\\_2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/aut15_burdzy_2.pdf)

Problem 1a: [http://www.math.washington.edu/~m125/Quizzes/week8/win16\\_bekyel\\_2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/win16_bekyel_2.pdf)

**for practice using Section 7.4 material (Partial Fractions):**

Problem 2a: [http://www.math.washington.edu/~m125/Quizzes/week8/win13\\_mid2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf)

Problem 1a, 2a: <http://www.math.washington.edu/~aloveles/Math125Spring2016/sp13m125e2.pdf>

Problem 2a: [http://www.math.washington.edu/~m125/Quizzes/week8/win16\\_bekyel\\_2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/win16_bekyel_2.pdf)

Problem 2: <http://www.math.washington.edu/~aloveles/Math125Spring2016/w15m125e2.pdf>

Problem 2a: [http://www.math.washington.edu/~m125/Quizzes/week8/win16\\_pollack\\_2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/win16_pollack_2.pdf)

**for practice using Section 7.5 material (Combining Integration Techniques):**

Problem 1: <http://www.math.washington.edu/~m125/Quizzes/week8/mid2a.pdf>

Problem 1: [http://www.math.washington.edu/~m125/Quizzes/week8/win16\\_pollack\\_2.pdf](http://www.math.washington.edu/~m125/Quizzes/week8/win16_pollack_2.pdf)

Problem 1b: <http://www.math.washington.edu/~aloveles/Math125Spring2016/w11m125ce2.pdf>

Problem 2a: <http://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp07e2.pdf>

And there is plenty more practice in the exam archive and elsewhere on my website!!!

I hope some of this helps.

Dr. Andy Loveless