

Math 125 End of Week 6 Newsletter

UPCOMING SCHEDULE:

- Friday: Section 7.4 (Partial Fractions)
Monday: Section 7.5 (Summary of Integration)
Tuesday: HW Q & A (You should have lots of homework questions!)
Wednesday: Section 7.7 (Approximating Integrals)
Thursday: Worksheet 7 – Integration Techniques Practice
<http://www.math.washington.edu/~m125/Worksheets/IntegrationTechniques.pdf>
Friday: Section 7.8 (Improper 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_5C (covers 7.3)
Closing Wednesday: HW_6A, 6B, 6C (covers 7.4, 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:

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:

<https://sites.math.washington.edu/~aloveles/Math125Spring2017/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

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

Problem 1a: 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

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

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

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

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