

Math 125 End of Week 6 Newsletter

UPCOMING SCHEDULE:

Friday: Section 7.4 and 7.5 (Partial Fractions & Summary of Trig)
Monday: Section 7.5 and 7.7 (Summary of Trig and Trapezoid/Simpson approximation)
Tuesday: HW Q & A (You should have lots of homework questions!)
Wednesday: Section 7.8 (Improper Integrals)
Thursday: Worksheet 7 – Integration Techniques Practice
<http://www.math.washington.edu/~m125/Worksheets/IntegrationTechniques.pdf>
Friday: Section 8.1 (Arc Length)

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, May 6th at 11:00pm: HW_5C (covers 7.3)

Closing Wednesday at 11:00pm: HW_6A, HW_6B, HW_6C (These cover 7.4, 7.5 and 7.7)

HW_5A: median score = 100%, median time students had browser open to assignment = 147 minutes

HW_5B: median score = 100%, median time students had browser open to assignment = 73 minutes

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/Math125Spring2016/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/Math125Spring2016/30RandomIntegralsFromOldSecondMidterms.pdf>

Comments and answers:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/30RandomIntegralsSolns.pdf>

2. 11 Practice Problems from an old lecture review I once used:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/7-5IntegralsReview.pdf>

Here are my full solutions:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/7-5IntegralsReviewSolns.pdf>

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

<http://www.math.washington.edu/~aloveles/Math125Spring2016/12IntegraleexamplesFirstPage.pdf>

Here are my full solutions:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/12integraleexamplesSolns.pdf>

4. Quick Summary Lecture Overheads about all integration techniques:

http://www.math.washington.edu/~aloveles/Math125Spring2016/7-5_OverheadsForReviewOfIntegration.pdf

5. Flowchart I created to organize the methods on one page:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/Integration%20Methods%20Flowchart.pdf>

6. List of the essential integrals you need to know:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/7-5IntegralsWeKnow.pdf>

7. A full review of all integration methods:

<http://www.math.washington.edu/~aloveles/Math125Spring2016/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/Math125Spring2016/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