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 https://www.math.washington.edu/~m125/Worksheets/IntegrationTechniques.pdf
Next Friday:	NO CLASS – (Holiday)

Worksheet 5 (Integration by parts) Solutions: https://www.math.washington.edu/~m125/outline5.php
Worksheet 6 (Partial Fractions) Solutions: https://www.math.washington.edu/~m125/outline6.php

HOMEWORK:

Closing Friday:	HW_5C(covers 7.3)
Closing next *Thursday*:	HW_6A, 6B (covers 7.4, 7.5)

HOMEWORK COMMENTS AND HINTS:
On HW_6A, 6B: Lots of practice with integration. Get to work and find where you are still having trouble!

NEW POSTINGS (course website**:** https://sites.math.washington.edu/~aloveles/Math125Fall2017/index.html)
You need to practice, practice, practice integrating. To help you do this, I have made several lists of practice problems:

1. Flowchart I created to organize the integration methods (ONE OF MY MOST POPULAR REVIEW SHEETS):
https://sites.math.washington.edu/~aloveles/Math125Fall2017/Integration%20Methods%20Flowchart.pdf
2. A full review of all integration methods (ANOTHER POPULAR REVIEW SHEET):
https://sites.math.washington.edu/~aloveles/Math125Fall2017/IntegrationTechniques.pdf

Look at old exams for practice. In addition, I compiled a bunch of practice problems as follows. So there are lots of chances to practice integration, use them!!! The second test will be primarily about integration techniques.

a) 30 Random Integrals <u>Directly</u> from Old Exams (for these practice quickly identifying how to start)
https://sites.math.washington.edu/~aloveles/Math125Fall2017/30RandomIntegralsFromOldSecondMidterms.pdf
Comments and answers (I tell you how to start and I give the answer)
https://sites.math.washington.edu/~aloveles/Math125Fall2017/30RandomIntegralsSolns.pdf

b) 11 Practice Problems from one of my old lecture reviews
https://sites.math.washington.edu/~aloveles/Math125Fall2017/7-5IntegralsReview.pdf
Here are my full solutions:
https://sites.math.washington.edu/~aloveles/Math125Fall2017/7-5IntegralsReviewSolns.pdf

c) 12 Practice Problems that I wrote up a few years ago:
https://sites.math.washington.edu/~aloveles/Math125Fall2017/12IntegralexamplesFirstPage.pdf
Here are my full solutions:
https://sites.math.washington.edu/~aloveles/Math125Fall2017/12integralexamplesSolns.pdf

OLD EXAMS:
The math departmental exam 2 archive is here: https://www.math.washington.edu/~m125/Quizzes/Q8.php
My personal exam archive is here:
https://sites.math.washington.edu/~aloveles/Math125Fall2017/LovelessExamArchive.html
Here are some targeted practice problems from old exams on the current material (Some of these were in my last newsletter, but I wanted to put all the integration techniques targeted practice in one place):

for practice using Section 7.1 material (Integration by Parts):
Problem 1(b): https://www.math.washington.edu/~m125/Quizzes/week8/win16_bekyel_2.pdf
Problem 2(b): https://www.math.washington.edu/~m125/Quizzes/week8/win16_pollack_2.pdf
Problem 5(b): https://www.math.washington.edu/~m125/Quizzes/week8/win16_pollack_2.pdf
Problem 2(b): https://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf
Problem 1(c): https://www.math.washington.edu/~m125/Quizzes/week8/win16_ostroff_2.pdf
Problem 1(b): https://www.math.washington.edu/~aloveles/Math125Spring2016/f09m125e2.pdf
Problem 3(a): https://www.math.washington.edu/~aloveles/Math125Spring2016/f09m125e2.pdf

for practice using Section 7.2 material (Trig Integrals):
Problem 1(a): https://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf
Problem 2: https://www.math.washington.edu/~m125/Quizzes/week8/win16_ostroff_2.pdf
Problem 1(b): https://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp06e2.pdf
Problem 3(a): https://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp06e2.pdf
Problem 2(a): https://www.math.washington.edu/~aloveles/Math125Spring2016/f09m125e2.pdf

for practice using Section 7.3 material (Trig Substitution):
Problem 3: https://www.math.washington.edu/~m125/Quizzes/week8/mid2a.pdf
Problem 2: https://www.math.washington.edu/~aloveles/Math125Spring2016/w15m125e2.pdf
Problem 1b: https://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf
Problem 2b: https://www.math.washington.edu/~aloveles/Math125Spring2016/sp13m125e2.pdf
Problem 3: https://www.math.washington.edu/~m125/Quizzes/week8/aut15_burdzy_2.pdf
Problem 1a: https://www.math.washington.edu/~m125/Quizzes/week8/win16_bekyel_2.pdf

for practice using Section 7.4 material (Partial Fractions):
Problem 2a: https://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf
Problem 1a, 2a: https://www.math.washington.edu/~aloveles/Math125Spring2016/sp13m125e2.pdf
Problem 2a: https://www.math.washington.edu/~m125/Quizzes/week8/win16_bekyel_2.pdf
Problem 2: https://www.math.washington.edu/~aloveles/Math125Spring2016/w15m125e2.pdf
Problem 2a: https://www.math.washington.edu/~m125/Quizzes/week8/win16_pollack_2.pdf

for practice using Section 7.5 material (Combining Integration Techniques):
Problem 1: https://www.math.washington.edu/~m125/Quizzes/week8/mid2a.pdf
Problem 1: https://www.math.washington.edu/~m125/Quizzes/week8/win16_pollack_2.pdf
Problem 1b: https://www.math.washington.edu/~aloveles/Math125Spring2016/w11m125ce2.pdf
Problem 2a: https://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