Math 125 End of Week 5 Newsletter

UPCOMING SCHEDULE:

Friday:	Section 7.1/7.2 (Integrating Trig Functions)
Monday:	Section 7.2/7.3 (Trig Substitution)
Tuesday:	HW Q & A (You should have lots of homework questions!)
Wednesday:	Section 7.4 (Partial Fractions)
Thursday:	Worksheet 6 – Partial Fractions http://www.math.washington.edu/~m125/Worksheets/PartialFractions.pdf
Friday:	Section 7.5 (Summary of Integration Techniques)

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

HOMEWORK:

Closing Wednesday at 11:00pm: HW_5A, HW_5B, HW_5C (These cover 7.1, 7.2 and 7.3)
HW_4A: median score = 100%, median time students had browser open to assignment = 116 minutes
HW_4B: median score = 100%, median time students had browser open to assignment = 55 minutes
HW_4C: median score = 100%, median time students had browser open to assignment = 40 minutes

HOMEWORK COMMENTS AND HINTS:

On HW_5A:
Problem 9: Integrate from 0 to t. (Don't forget to plug in the 0 at the end and e^0 = 1).
Problem 10: I think it is much easier if you wait to put in the numbers until the end, start by splitting up the integral, and perhaps simplify one of the integrals with a substitution. (If you are thoughtful in how you do your work, it doesn't get messy).
On HW_5B: Get out the trig identities and follow the recipes from class!
On HW_5C: Again, you'll need all those trig identities and follow the recipe from class.

NEW POSTINGS

Here, again, is the course website: https://sites.math.washington.edu/~aloveles/Math125Spring2017/index.html
There are several new postings:

1. **More Examples of Integration by Parts** (This contains 7 standard problems and 5 extremely challenging problem):
   https://sites.math.washington.edu/~aloveles/Math125Spring2017/IntegrationByPartsPractice.pdf
   Fully worked out solutions to the 7 standard problems:
   http://www.math.washington.edu/~aloveles/Math125Spring2016/m125bypartspracticesolutions.pdf
   Fully worked out solutions to the 5 extremely challenging problems (harder than homework and old exams):
   http://www.math.washington.edu/~aloveles/Math125Spring2016/m125IntegrationByPartsChallenge.pdf
2. **List of all the basic integrals you need to know for homework in 7.1-7.5**:
   https://sites.math.washington.edu/~aloveles/Math125Spring2017/7-5IntegralsWeKnow.pdf
3. **A review and list of all the trig identities you will need for this course**:
   https://sites.math.washington.edu/~aloveles/Math125Spring2017/7-2EssentialTrigIdentities.pdf
4. **Summary of 7.2**:
   https://sites.math.washington.edu/~aloveles/Math125Spring2017/7-2SummaryOfCases.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 6.5 material (Average value):
Problem 4: http://www.math.washington.edu/~aloveles/Math125Spring2016/f09m125e2.pdf
Problem 1(b): http://www.math.washington.edu/~m125/Quizzes/week8/mid2p.pdf
Problem 5: http://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp06e2.pdf

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

for practice using Section 7.2 material (trig integrals):
Problem 1(a): https://sites.math.washington.edu/~aloveles/Math125Spring2017/w17m125e2.pdf
Problem 1(a): http://www.math.washington.edu/~m125/Quizzes/week8/win13_mid2.pdf
Problem 2: http://www.math.washington.edu/~m125/Quizzes/week8/win16_ostroff_2.pdf
Problem 1(b): http://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp06e2.pdf
Problem 3(a): http://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp06e2.pdf
Problem 2(a): http://www.math.washington.edu/~aloveles/Math125Spring2016/f09m125e2.pdf

I hope some of this helps.

Dr. Andy Loveless