

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
<https://www.math.washington.edu/~m125/Worksheets/PartialFractions.pdf>
Friday: Section 7.5 (Summary of Integration Techniques)

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

HOMEWORK: Closing Wednesday: HW_5A, HW_5B (cover 7.1 and 7.2)
Closing Friday: HW_5C (covers 7.3)
HW_4A: median score = 100%, median time = 116 minutes
HW_4B: median score = 100%, median time = 55 minutes
HW_4C: median score = 100%, median time = 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/Math125Fall2017/index.html>

1. **More Examples of Integration by Parts** (This contains 7 standard problems and 5 extremely challenging problem):

<https://sites.math.washington.edu/~aloveles/Math125Fall2017/IntegrationByPartsPractice.pdf>

Solutions can be found on the course website.

2. **List of all the basic integrals you need to know for homework in 7.1-7.5:**

<https://sites.math.washington.edu/~aloveles/Math125Fall2017/7-5IntegralsWeKnow.pdf>

3. **Summary of 7.2:**

<https://sites.math.washington.edu/~aloveles/Math125Fall2017/7-2SummaryOfCases.pdf>

4. **A review trig identities and summary of main idea for 7.3:**

<https://sites.math.washington.edu/~aloveles/Math125Fall2017/7-2EssentialTrigIdentities.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:

for practice using Section 6.5 material (Average value):

Problem 4: <https://www.math.washington.edu/~aloveles/Math125Spring2016/f09m125e2.pdf>

Problem 1(b): <https://www.math.washington.edu/~m125/Quizzes/week8/mid2p.pdf>

Problem 5: <https://www.math.washington.edu/~aloveles/Math125Spring2016/m125sp06e2.pdf>

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

I hope some of this helps.

Dr. Andy Loveless