Math 125 End of Week 8 Newsletter

UPCOMING SCHEDULE:
Friday: Section 8.1 (Arc Length)
Monday: Section 8.3 (Center of Mass)
Tuesday: HW Q & A
Wednesday: Section 9.1 (Intro to Differential Equations)
Thursday: Worksheet 9 – Forensic Math (using differential equations on a crime scene):
                http://www.math.washington.edu/~m125/Worksheets/DiffEQ.pdf
Next Friday: Section 9.3 (Separable Equations and Solving with some Applications)

HOMEWORK: Closing Wed: HW_8A, 8B (covers 8.1)   Closing Fri: HW_8C (covers 8.3)

HOMEWORK COMMENTS AND HINTS:
HW_8A: Make sure you pay attention in lecture. These are some clever bits of algebra you need to evaluate some of these integrals (as we will discuss in class).
HW_8B: This is only 3 questions!!! The first two are about arc length (for the second one, use the given formula). The third question is review of an old topic.
HW_8C: Mostly, this will be a chance to practice integration. We derived the center of mass formulas in class, so you have to use them. These are big problems, give yourself some space and be carefully with your algebra and integration. And remember that it wants EXACT answers (but otherwise you don't need any special skills for this section).

NEW POSTINGS
Here, again, is the course website: http://www.math.washington.edu/~aloveles/Math125Fall2019/index.html
No significant new postings, but do check out my lecture notes.

OLD EXAMS:
The math departmental **final exam archive** is here: http://www.math.washington.edu/~m125/Quizzes/Q10.php
Here are some targeted practice problems from old exams on the current material:

for practice using Section 8.1 material (Arc Length):
Problem 3b: https://www.math.washington.edu/~aloveles/Math125Spring2016/w11m125ce2.pdf
Problem 4a: https://www.math.washington.edu/~aloveles/Math125Spring2016/sp13m125e2.pdf
Problem 3b: https://www.math.washington.edu/~aloveles/Math125Spring2016/w15m125e2.pdf

for practice using Section 8.3 material (Center of Mass):
Problem 8:   http://www.math.washington.edu/~m125/Quizzes/week10/125finalW07.pdf
Problem 8:   http://www.math.washington.edu/~m125/Quizzes/week10/125finalSp09.pdf
Problem 8:   http://www.math.washington.edu/~m125/Quizzes/week10/125finalW13.pdf
Problem 9:   http://www.math.washington.edu/~m125/Quizzes/week10/125finalW06.pdf

I hope some of this helps.

Dr. Andy Loveless