

Math 125 End of Week 9 Newsletter

UPCOMING SCHEDULE:

Friday:	Section 9.4 (Applications of Separable Differential Equations)
Monday:	Section 9.4 (more applications of separable differential equations)
Tuesday:	HW Q & A
Wednesday:	Final Review
Thursday:	Final Review
Friday:	Final Review

The Math 125 Final is Saturday, December 9th, from 1:30-4:20pm in KANE 130.

There is assigned seating, go here to see your assigned seat:

<https://catalyst.uw.edu/gradebook/aloveles/102715>

HOMEWORK:

Closing Wednesday at 11:00pm: HW_9A,9B (covers 9.1, 9.3, 9.4).

HOMEWORK COMMENTS AND HINTS:

On HW_9: Ask questions in quiz section. Separate, integrate, simplify. And use given information.

NEW AND LAST POSTINGS

Here, again, is the course website: <https://sites.math.washington.edu/~aloveles/Math125Fall2017/index.html>

1. Final Review Checklist:

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

2. Quick Review of New Material (8.3 and Chapter 9):

<https://sites.math.washington.edu/~aloveles/Math125Fall2017/AfterExam2Material.pdf>

Supplemental Postings:

Here are two review sheets from the first two weeks of my Math 307 course. These are more in-depth application review sheets with examples and practice problems. These problems are harder than in this class, so if you can do these problems then you will be more than ready for anything we can ask on our final.

My Math 307 Differential Equation Application Discussion (you can understand this with what we know):

<https://sites.math.washington.edu/~aloveles/Math307Spring2016/DifferentialEquationApplications.pdf>

My Math 307 Differential Equation Application Practice Problems (goes a bit deeper than you need in this course):

<https://sites.math.washington.edu/~aloveles/Math307Spring2016/m307Review2-3.pdf>

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:

NOTE: The last two pages of almost every final in the archive is about differential equations, so you can find a lot more practice than what is listed below. I randomly clicked on several old finals and categorized what I saw as follows:

for practice using section 9.3 material (Separable Equations straight solving):

Problem 9: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW16.pdf>

Problem 9: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW15.pdf>

Problem 9: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW13.pdf>

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalA09.pdf>

Problem 9: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalA15.pdf>

for practice using section 9.4 material (Differential Equations Applications):

Newton's Law of Cooling:

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW13.pdf>

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalA15.pdf>

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalSp12.pdf>

Mixing Problems:

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW15.pdf>

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalSp14.pdf>

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW10.pdf>

Savings Money:

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalSp13.pdf>

Problem 9: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW11.pdf>

Equation Given:

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW12.pdf>

Problem 11: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalA09.pdf>

Problem 10: <http://www.math.washington.edu/~m125/Quizzes/week10/125finalW16.pdf>

I hope some of this helps.

Dr. Andy Loveless