

Math 207 Week 3 Newsletter – Dr. Loveless

UPCOMING SCHEDULE:

Friday: *Finish 2.7, introduce chapter 3*
Monday: Review for midterm (bring old exam and homework questions)
Wednesday: **Midterm 1** (covers all material we have discussed through 2.7)
Next Friday: Section 3.1: Second order (linear constant coefficient homogenous with 2 real roots)

HOMEWORK: HW 3 Closes Tuesday (it covers 2.3, 2.5 and 2.7 please finish it well before Tuesday). Please, please check out hints and post questions on the discussion board: [HW 3 discussion board](#).

Midterm 1 is Wednesday and covers:

1. *1st order solving methods:*
 - Separable Equations:* see 2.2 problems and in many other sections
 - Integrating Factor:* see 2.1 problems and in many other sections
2. *Applications:* see ch. 1 and 2.3 problems and various applications in homework
3. *Equilibrium Analysis (Stable, Unstable, Semistable) and slope fields:* see 2.5 problems
4. *Numerical Analysis (Euler's method):* see 2.7 problems

You are allowed:

- a) An 8.5 by 11 inch sheet of handwritten notes (front and back)
- b) A basic scientific calculator (no graphing calculators and no calculator that can do calculus).
- c) Something to write with.

Please feel free to post exam questions (old exam questions, rules, etc) to the [Exam 1 Review Discussion Board](#).

NEW POSTING: Here is the link again to [Dr. Loveless review materials page](#).

For this next week, some of my review sheets that might help include:

1. [Section 2.7 \(Euler Method\) Review Sheet](#)
2. [Exam 1 One-Page Review Sheet](#)
3. [Exam 1 Rules and Slightly Longer Review Sheet](#)

OLD EXAMS: Exam Archives: [Personal Exam Archive](#) and [Department Exam 1 Archive](#)

Here is some targeted practice on the current material from these archives (see previous newsletters for targeted practice on previous topics)...

Practice for 2.5 (Autonomous and Equilibrium Analysis):

- [Problem 3\(a\) from Loveless 2015 Exam 1](#)
- [Problem 4\(b\) from Loveless 2015 Exam 1](#)
- [Problem 4\(b\) from Loveless 2016 Exam 1](#)
- [Problem 4 from Rudnick 2012 Exam 1](#)
- [Problem 4 from Spicer 2014 Exam 1](#)

Practice for 2.7 (Euler's Method):

- [Problem 4\(a\) from Loveless 2015 Exam 1](#)
- [Problem 4\(a\) from Loveless 2016 Exam 1](#)
- [Problem 3 from Spicer 2014 Exam 1](#)

I hope this helps!

Dr. Andy Loveless