

Math 307 - Homework 5a - Dr. Loveless

DUE Never

This short assignment will not be graded, but you are expected to complete this assignment and know this material before midterm 2. This material **can** be included on the second midterm.

As always, this is a minimal list of problems, I strongly encourage you to do more problems than are assigned.

1. 3.8/5, 6, 7, 8, 16
2. Old Exam Practice (pertaining to 3.8):
 - (a) Do problem 4 from the Winter 2013 (Erickson) Midterm 2.
 - (b) Do problems 4 and 5 from the Summer 2013 (Sarantsev) Midterm 2.
 - (c) Do problem 6 from Fall 2001 (Palmieri) Midterm 2.

NOTES AND SPECIAL INSTRUCTIONS :

1. On 3.8/7(b): use a graphing device to see the graph and make a rough sketch.
2. On 3.8/8: Just a warning, the coefficients you find (both for the particular solution and for the initial conditions) are a little messy to write as fraction, so go ahead and write your numbers as decimals if you like. Also, you should be able to make a rough sketch here without a graphing device (since you can find the amplitude and period).
3. On 3.8/12: The forcing function is a constant $E(t) = 12$, so this is just another chance to practice solving a nonhomogeneous equation (in other words, practice the undetermined coefficients method).