

## Math 307 Week 6 Newsletter – Dr. Loveless

### UPCOMING SCHEDULE:

Friday: Section 3.7: Free Vibrations (Test Prep 3!!!)  
Monday: Section 3.7/8: Free Vibrations  
Wednesday: Section 3.8: Force Vibrations (Homework 5 due)  
Next Friday: Section 3.8/6.1: Resonance and Intro to Laplace Transform

### Test Prep 3:

An example of an old test prep is here (your test prep will be similar):

<http://www.math.washington.edu/~aloveles/Math307Spring2016/Test%20Prep%203.pdf>

with solutions here:

<http://www.math.washington.edu/~aloveles/Math307Spring2016/Test%20Prep%203%20Solutions.pdf>

### HOMEWORK:

HW 5 is posted: <http://www.math.washington.edu/~aloveles/Math307Spring2016/homework.html>

### NEW POSTING:

Here, again, is the course website: <http://www.math.washington.edu/~aloveles/Math307Spring2016/index.html>

These are all original review sheets written by me.

1. **Skills Review – Working with Sine and Cosine waves** (please print this off for reference):

<http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Waves.pdf>

2. **Intro for how to set up problems in 3.7 and 3.8** (examples included):

<http://www.math.washington.edu/~aloveles/Math307Spring2016/m307ReviewCh3Applications.pdf>

3. **Full review of 3.7 (free vibrations), essential terminology and analysis:**

<http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Review3-7.pdf>

4. **Full review of 3.8 (forced vibrations), essential terminology and analysis:**

<http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Review3-8.pdf>

5. **Full Summary of all 2<sup>nd</sup> order solving methods we have seen in class and in homework:**

<http://www.math.washington.edu/~aloveles/Math307Spring2016/m307ReviewSecondOrderSolving.pdf>

6. **Don't forget that I posted a 3.5 review which contained 6 fully worked examples:**

<http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Review3-5.pdf>

**OLD EXAMS:**

Here, again, is my personal Math 307 exam archive:

<http://www.math.washington.edu/~aloveles/Math307Spring2016/examarchive.html>

And here is some targeted practice on the current material.

*Practice for 3.5 (Undetermined Coefficients):*

Problem 1: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_14\\_spicer2.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_14_spicer2.pdf)

Problem 4: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_13\\_caday2.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_13_caday2.pdf)

Problem 3, 4: <http://www.math.washington.edu/~aloveles/Math307Spring2016/sp15m307e2.pdf>

Problem 1a, 3: <http://www.math.washington.edu/~aloveles/Math307Spring2016/t2.pdf>

Problem 1b: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_11\\_practice\\_sisodia.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_11_practice_sisodia.pdf)

Problem 1: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_14\\_practice\\_spicer2.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_14_practice_spicer2.pdf)

*Practice for 3.7 (Basic Set Up of Spring Problems):*

Problem 2a: <http://www.math.washington.edu/~aloveles/Math307Spring2016/sp15m307e2.pdf>

Problem 2a: [http://www.math.washington.edu/~aloveles/Math307Spring2016/sp\\_13\\_erickson2.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/sp_13_erickson2.pdf)

Problem 5a: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_14\\_spicer2.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_14_spicer2.pdf)

Problem 1a: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_11\\_grigg2.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_11_grigg2.pdf)

Problem 5a: [http://www.math.washington.edu/~aloveles/Math307Spring2016/wi\\_11\\_practice\\_sisodia.pdf](http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_11_practice_sisodia.pdf)

I hope this helps!

Dr. Andy Loveless