

Math 307 Week 6 Newsletter – Dr. Loveless

UPCOMING SCHEDULE:

Friday: Section 3.5: Undetermined Coefficients (nonhomogeneous equations)
Monday: Section 3.5/8: Undetermined Coefficients and Applications to Forced Mass-Spring
Wednesday: Section 3.8: Force Vibrations (**Test Prep 3!** Solve a undetermined coefficient problem in class)
Next Friday: Exam 2 review

Test Prep 3: An example of an old test prep is here (your test prep will be similar):

<http://www.math.washington.edu/~aloveles/Math307Fall2019/Test%20Prep%203.pdf>

with solutions here:

<http://www.math.washington.edu/~aloveles/Math307Fall2019/Test%20Prep%203%20Solutions.pdf>

HOMEWORK: Closes Sunday: HW 6 (on 3.4 and 3.7) Closes next Friday: HW 7 (on 3.5 and 3.8)

NEW POSTING:

Here, again, is the course website: <http://www.math.washington.edu/~aloveles/Math307Fall2019/index.html>

These are all original review sheets written by me.

1. **Don't forget that I posted a 3.5 (undetermined coefficients) review which contained 6 fully worked examples:**

<http://www.math.washington.edu/~aloveles/Math307Fall2019/m307Review3-5.pdf>

2. **Full Summary of all 2nd order solving methods we have seen in class and in homework:**

<http://www.math.washington.edu/~aloveles/Math307Fall2019/m307ReviewSecondOrderSolving.pdf>

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

<http://www.math.washington.edu/~aloveles/Math307Fall2019/m307ReviewCh3Applications.pdf>

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

<http://www.math.washington.edu/~aloveles/Math307Fall2019/m307Review3-7.pdf>

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

<http://www.math.washington.edu/~aloveles/Math307Fall2019/m307Review3-8.pdf>

6. **Section 3.8: Forced Oscillations from the Perspective of Beats**

<http://www.math.washington.edu/~aloveles/Math307Fall2019/m307Review3-8Beats.pdf>

OLD EXAMS:

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

<http://www.math.washington.edu/~aloveles/Math307Fall2019/examarchive.html>

And here is some targeted practice on the current material.

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

Problem 2a: <http://www.math.washington.edu/~aloveles/Math307Fall2019/sp15m307e2.pdf>

Problem 2a: http://www.math.washington.edu/~aloveles/Math307Fall2019/sp_13_erickson2.pdf

Problem 5a: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_14_spicer2.pdf

Problem 1a: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_11_grigg2.pdf

Problem 5a: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_11_practice_sisodia.pdf

Practice for 3.5 (Undetermined Coefficients):

Problem 1: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_14_spicer2.pdf

Problem 4: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_13_caday2.pdf

Problem 3, 4: <http://www.math.washington.edu/~aloveles/Math307Fall2019/sp15m307e2.pdf>

Problem 1a, 3: <http://www.math.washington.edu/~aloveles/Math307Fall2019/t2.pdf>

Problem 1b: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_11_practice_sisodia.pdf

Problem 1: http://www.math.washington.edu/~aloveles/Math307Fall2019/wi_14_practice_spicer2.pdf

I hope this helps! - Dr. Andy Loveless