Math 307 Week 5 Newsletter – Dr. Loveless

UPCOMING SCHEDULE:

Friday:	Section 3.4: Repeated roots and reduction of order
Monday:	Section 3.5: Undetermined Coefficients
Wednesday:	Section 3.5: Undetermined Coefficients
Next Friday:	Section 3.7: Free Vibrations (The beginning of our applications)

HOMEWORK:

HW 4 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. **Detailed 3.3 (Complex Roots Characteristic Equation Problems) Review and Additional Worked Examples**:
   http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Review3-3.pdf
2. **Detailed 3.4 (Repeated Roots and Reduction of Order) Review and Additional Examples**:
   http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Review3-4.pdf
3. **Summary of 3.1, 3.3, and 3.4 (Solving Homogeneous Second Order Linear Equations) with practice problems**:
   http://www.math.washington.edu/~aloveles/Math307Spring2016/m307ReviewLinearHomogeneous.pdf
4. **Detailed 3.5 (Undetermined Coefficients) Review and six fully worked examples with solutions:**
   http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Review3-5.pdf
5. ***Skills Review* – Everything you need to know about solving 2-by-2 linear systems (read this carefully):**
   http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Solving2x2Systems.pdf
6. ***Skills Review* – Working with Sine and Cosine waves**:
   http://www.math.washington.edu/~aloveles/Math307Spring2016/m307Waves.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 3.1, 3.3, and 3.4 (Solving Homogeneous Linear Second Order Equations):

Problem 5:	http://www.math.washington.edu/~aloveles/Math307Spring2016/midterm1e.pdf
Problem 1:	http://www.math.washington.edu/~aloveles/Math307Spring2016/midterm2.pdf
Problem 1(a):	http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_11_practice_sisodia.pdf
Problem 1(a):	http://www.math.washington.edu/~aloveles/Math307Spring2016/t2.pdf
Problem 5:	http://www.math.washington.edu/~aloveles/Math307Spring2016/307Midterm2,Fall13.pdf

Practice for 3.4 (Reduction of Order):

Problem 6:	http://www.math.washington.edu/~aloveles/Math307Spring2016/midterm1e.pdf
Problem 5:	http://www.math.washington.edu/~aloveles/Math307Spring2016/sp15m307e2.pdf
Problem 3:	http://www.math.washington.edu/~aloveles/Math307Spring2016/midterm1a.pdf
Problem 4:	http://www.math.washington.edu/~aloveles/Math307Spring2016/wi_13_practice_caday2.pdf

I hope this helps!

Dr. Andy Loveless