

Math 111 End of Week 8 Newsletter

IMPORTANT NOTE:

Tuesday, November 24th: Midterm 2 in quiz section

It covers: 1.6 (supply/demand), 2.1-2.3 (quadratics/applications), 1.5 (solving systems), 4.1, 4.2 (linear programming), 5.1-5.3 (powers/root, exponentials/logarithms)

UPCOMING SCHEDULE:

Friday (Today): Structured Review

Monday: Unstructured review (bring questions and you can come to any or all lectures)

Tuesday: **MIDTERM 2** (in your normal quiz section)

Wednesday: Class cancelled (based on last year's data, attendance would be terrible on this day, so I am not holding lecture on this day. There will be no class)

Note: The MSC will be closed on Tuesday, Wednesday, and Thursday of next week.

ADDITIONAL OFFICE HOURS FOR THE NEXT WEEK:

Here are times you will have direct access to me (Dr. Loveless):

Friday: 8:30am - 1:15pm in Anderson Hall 223.

1:30pm - 3:00pm in the Math Study Center

Monday: 8:30am – 9:20am in Forestry Club room down the hall from Anderson Hall 223.

9:30am - 12:45pm in Anderson Hall 223.

1:00pm - 3:30pm in the Math Study Center

Also note the MSC is open until 4:30pm on Monday.

NOTES ABOUT THE NEXT WEEK:

- a) On Friday, I will have a more structured review during the actual class times. However, from 8:30-9:30am and 12:30-3:00pm on Friday I will have open review sessions (bring questions, you can ask anything you want).
- b) On Monday, you get **7 uninterrupted hours** where you can ask me any questions you want!!! From 8:30-12:45pm I will be in Anderson Hall 223 (or the forestry room down the hall). You can come to any or all lectures, since they will be unstructured sessions where I just answer old exam and homework questions. Please bring lots of questions. And from 1:00-3:30pm on Monday you can ask me any questions you want in the MSC.
- c) That all being said, you need to be spending the majority of your time studying on your own!!! Put yourself in an exam like situation, make sure you can actually do the problems yourself. Watching me do problems does not count as actual studying, I will just be available to straighten out any confusion you are having, but you need to make sure at some point that you can actually do the problems completely on your own!

NEXT WEEK HW SCHEDULE:

Closing Tuesday: Section 5.3 (this is included in material you need to know for the exam, so plan to finish this early!!!)

WEEK 8 HOMEWORK STATS:

Section 4.2 HW: Median Score = 100%, Median Time Browser Open = 2 hours and 2 minutes

Section 5.1&5.2 HW: Median Score = 100%, Median Time Browser Open = 30 minutes

NEW POSTINGS:

Full Extensive Exam 2 Review:

<http://www.math.washington.edu/~aloveles/Math111Fall2015/Exam2Review.pdf>

All Review Material for Exam 2 in one file

<http://www.math.washington.edu/~aloveles/Math111Fall2015/AllExam2ReviewInOneFile.pdf>

OLD POSTINGS: (Summary of Previous Postings relating to Exam 2)

General Comments on Calculation Errors and Checking your Work:

<http://www.math.washington.edu/~aloveles/Math111Fall2015/Math111CalculationErrors.pdf>

Section 1.6 (supply and demand):

You should recognize that you did supply and demand questions in several different homework sets including 1.6, 1.5, and in chapter 2. Make sure you can do all those homework questions.

1. **Summary of main supply and demand concepts** (See page 2 and 3):

<http://www.math.washington.edu/~aloveles/Math111Fall2015/Section1.6Review.pdf>

Chapter 2 Materials (vertex, quadratic equations, functional notation and business app problems):

A great place to start your studying on this material is the **Optional Homework** that I created to help you practice chapter 2 (you will see these assignments in webassign).

1. **FULL REVIEW OF CHAPTER 2 (contains 6 old exam questions with full solutions):**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Section2.3Review.pdf>
2. **Summary of all homework from chapter 2 (I categorize all the homework in this sheet):**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Chapter2ProblemOverview.pdf>
3. **Summary of applied functional notation skills (from 2.2):**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Section2.2Review.pdf>
4. **Summary of general functional notations skills:**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/FunctionalNotation.pdf>
5. **Summary of basic vertex and quadratic equation skills (from 2.1):**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Section2.1Review.pdf>

Chapter 4 Materials (solving systems, graphing inequalities and linear programming):

1. **Discussion of the Linear Programming Method (from 4.2) with full examples:**
<http://www.math.washington.edu/~aloveles/Math111Fall2014/Section4.2Review.pdf>
2. **Four examples of how to set up applied linear programming problems:**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Chapter4PreviewAndNotes.pdf>
3. **Review of solving systems and graphing inequalities (from 1.5 and 4.1):**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Section1.5&4.1Review.pdf>

Chapter 5 Materials (powers/roots, exponentials/logarithms, and solving in general):

1. **Review of 5.1, 5.2, and 5.3:**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/Section5.1-5.3Review.pdf>
2. **Summary of general solving skills:**
<http://www.math.washington.edu/~aloveles/Math111Fall2015/m112reviewSolving.pdf>

OPTIONAL PRACTICE HOMEWORK NOTES: (This was also in last week's newsletter)

Students typically tell me that the chapter 2 materials is the most challenging part of exam 2. As I announced last week, I made some additional optional homework to give you extra practice with chapter 2. I said this in last week's newsletter, but let me explain again:

The Optional homework assignments are worth NO points (these are just optional practice for chapter 2 material). You get 100 submission on each problem. **After 1 failed submission you will see the correct answers and notes on how to do the problem.** I currently have them set to close the Sunday before the next midterm. So this is really just to help you study. Let me explain the two assignments:

A) "(Optional) Ch 2 Functional Notation Review"

Do you know how to go from AVC to VC or how to go from TC to MC or how to go from price to TR? Do you know how to find MC if the units are hundreds or thousands? These skills should be routine at this point. So I created this collection of quick problems that give you a chance to test yourself on these skills. All you do in these problems is go from one applied function to others. Most of these should be very fast!

B) "(Optional) Ch 2 Review - Problems from Old Exams"

Algebraically: Do you know how to find maximum profit? Do you know how to find SDP? Do you know how to find when TR is increasing? Do you know how to find when AC is equal to 1.75? ... This is a collection of problems directly from old exams that have to do with chapter 2 and should give you some quick practice with these types of problems. I had planned to code in all the old exam questions, but the coding actually takes a long time so I stopped after about 8 problem, but that should give you a good start on your studying, then you can move to the exam archive. And again after one submission you will see the answers and a description of how to do the problem.

Understand that this is my first time coding in Webassign and I just quickly wrote this over the last week, so if you find typos or if you notice something unusual, please let me know. This is just a bit of an experiment. Let me know if you find this useful.

OLD EXAMS:

You should be working through all the second midterms in the exam archive which you can find here: <http://www.math.washington.edu/~m111/Archives.html>

In previous newsletters, I pointed out problems from old exams that correspond to each topic so far. Here are some old exam questions that pertain to the newest material (Sections 5.1, 5.2, and 5.3):

Problem 1(b) from:

http://www.math.washington.edu/~m111/Midterm2/aut14_MT2_loveless.pdf

Problem 5 from:

<http://www.math.washington.edu/~m111/Midterm2/aut12ExamIItaggart.pdf>

Problem 5 from:

<http://www.math.washington.edu/~m111/Midterm2/win13ExamIlnichifor.pdf>

Problem 4 from:

<http://www.math.washington.edu/~m111/Midterm2/aut13ExamIlbekyel.pdf>

Okay, if you find something helpful here, please advertise to your classmates. I want these materials to be used.

Dr. Andy Loveless