**Math 111 End of Week 2 Newsletter**

**UPCOMING SCHEDULE**:

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| Friday (Today): | Supplements 7: Marginal Revenue and Marginal Cost |
| Monday: | Supplements 8: Max Profit and Cost Analysis |
| Tuesday: | Activity 3: Clarification and Organization of Business Terms<br>Print off activity 3 and bring it to quiz section on Tuesday! |
| Wednesday: | Supplement 9: Average Cost, Average Variable Cost, and Summary of TR/TC Analysis |
| Thursday: | Test Prep and homework questions |
| Friday: | Section 1.1: Linear Equations and Inequalities |

**HOMEWORK**:

Closing Tuesday (by 11pm): Supplement 5
Closing Thursday (by 11pm): Supplement 6-7

**Activity 2** (from last Tuesday's quiz section) has solutions posted. Make sure to review this. You are expected to know this material for exams. Reading through this will also make homework easier. You can find the solutions on the course website. Here is the direct link:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Activity02key.pdf
Print off activity 3 and bring it to quiz section on Tuesday!

**IMPORTANT COURSE COMMENTS**

I have had about a dozen emails asking for extensions or extra submissions. I also have had five or six angry emails complaining that the homework was too challenging or that there was no help available. Let me answer these emails for everyone here:

1. Start your homework early!!! Especially if you find this material challenging, you need to be starting this homework as soon as it becomes visible! That gives you time to seek out help and ask questions.
2. There are no extensions for any reason. You should plan on getting the homework done at least two days before it closes, so that there is no chance that you won't complete it by the closing time. (also remember that I round up by 5%, so even if you missed one entire assignment, it still would be possible for you to get 100% on homework).
3. We will NOT give more submissions. The fact that you have 5 submissions is already too generous. Here is how you should do the homework.
   i) Read the question and attempt the problem.
   ii) If the first submission is incorrect, reread and make sure you understand the graph and the question. Also make sure you were as accurate as possible (did you print off the large graph and draw lines and do things as accurately as you could).
   iii) If your second submission is incorrect, then move on to other questions and ask someone about that problem later (a classmate, a tutor, me).
   You should NEVER use more than 3 submissions.

   **Also remember on a test you only get ONE submission. So use the homework for practice and get the answer correct the first time (don't use submissions to check your work, practice checking your work yourself).**

For those that thought the homework was too challenging, I think you should look at the homework stats on the next page and you will find that the vast majority of the class comfortably completed the homework. So the level is appropriate (this is a college class), you need to experiment with different ways to approach the homework so that you can be successful (you have to get past blaming me or the homework and find a constructive way to think so you can do well in the course).
Also remember, I am your ally. I am trying to help you do well in this course. Don't send me angry emails and don't work against me, we should be working together.

**WEEK 1 HOMEWORK STATS:**
*SUPPLEMENT 1-3 HW*: The median score was 100%!!!
Only 25 of the 440 students in my classes scored below 90% on this homework.
The median amount of time needed was 2 hours and 16 minutes
(this number is actually the median amount of time that students had this assignment open on their computer, so this number is much higher than the actual time students were working on the assignment).

*SUPPLEMENT 4 HW*: The median score was 93%.
Students who lost points primarily did on question 3 (often missing the TRUE/FALSE).
The median amount of time was 1 hour and 47 minutes.

*SUMMARY OF WEEK 1 HOMEWORK*:
**The vast majority (over 3 quarters) of the class did better than 95% on the homework this week** (remember that I round up by 5%, so all these students will get 100% for their official homework score in the grade book).
**The vast majority of the class worked on the homework for 4 hours or less**.

**A REMINDER ABOUT WHERE YOU CAN FIND HELP**:
You should be completing as much of the homework as possible completely on your own!
**During a test, you will NOT have a tutor sitting with you helping you**. So you need to be doing the homework without a tutor helping you. There are some students in the MSC that are trying to get help on every part of every problem. You won't learn anything unless you are attempting and figuring out most of the homework on your own!!
That being said, if you have very carefully though through about a problem and used two submissions, then it is time to get clarification from a tutor. Here is where you find help.

1. Quiz section. Most Thursdays you will have dedicated time for questions, and you can also ask questions on Tuesdays as time allows.
2. Math Study Center is in the Communications building B-006 (it is small classroom next door to the full calculus tutor center) and it is open
   1:00- 4:30pm Monday/Wednesday 12:30-4:30pm Tuesday/Friday
3. You can ask me in the morning, I am always from to the classroom around 9:05 about 25 minutes before my first lecture. **I am only on campus Mondays, Wednesdays, and Fridays**.
4. I also have office hours from 1:00-2:00pm on Fridays. I will hold this in my office (Padelford C-339), unless it gets busy in which case we will move the Math Study Center.
5. You can ask me quick questions between classes.
6. You can use CLUE tutoring which is in Mary Gates Hall Commons from 7pm - midnight on Sundays-Thursdays.
7. You can form study groups with classmates. If the MSC is busy, you can make good use of it by forming a study group with classmates and finding what questions you have in common (then you can each ask about a different one and report back to the group).
8. Also check out the other postings on my course website (there are lots of homework hints there including answers to several homework questions).

That offers a great number of opportunities for you to get in-person help. These resources will be busiest in the first few weeks and the days that homework assignments are due.

**NEW POSTINGS**:
There are a lot of new postings. You can find them in the most recent announcement and on the right side of the course page. I also provide direct links below:

1) A review of everything from Supplement 1-9 (all the graphical materials):
http://www.math.washington.edu/~aloveles/Math111Fall2015/SupplementGraphsReview.pdf

**The review sheet above is a big one** that I spent a lot of time creating. In it, I categorize all the homework that goes with Supplements 1-9 by topic. I indicate exactly which problems are line/slope problems or reference line problems. I very carefully lay out tables showing you how to deal with increment graph problems (like you might have been struggling with on this last homework). Then I summarize all applications we have seen or will see. I hope this help you start to organize the material in your head.

Here are some of my other postings you can also find online that should be helpful:

2) A flowchart I created to help you organize how to handle graph problems:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Math%20111%20Graphical%20Problem%20Flowchart.pdf

3) Solutions to the translation table we used in the Supplement 5 Lecture:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Supplement%205%20Translation%20Answers.pdf

4) A brief Supplement 5 translation review:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Supplement5Review.pdf

5) A summary of what we will discuss today and Monday:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Supplement6-7Review.pdf

6) A table of the business terms we are discussing for your reference:
http://www.math.washington.edu/~aloveles/Math111Fall2015/SummaryOfBusinessTerms%20-%20Page%2031%20of%20Supplemental%20Text.pdf

7) Example old exam problems and solutions where you are given total amount graphs:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Four%20Overall%20Amount%20Graph%20Problems.pdf

8) Example old exam problems and solutions where you are given incremental graphs:
http://www.math.washington.edu/~aloveles/Math111Fall2015/Four%20Incremental%20Graph%20Problems

**OLD EXAM QUESTIONS FOR PRACTICE**:
Here are some old exam questions that pertain to material we have done lately. Try these problems out now to get an idea of how you well you are understanding the material and to access if you are ready for the first exam (you will need to read Supp. 8 and Supp. 9 to do a few parts of these problems)

Problem 1 from here:
http://www.math.washington.edu/~m111/Midterm1/win13ExamInichifor.pdf

Problem 2 from here:
http://www.math.washington.edu/~m111/Midterm1/win14ExamIbekyel.pdf

For more practice with material from last week see:
Problems 2 and 3 from:
http://www.math.washington.edu/~m111/Midterm1/sum13ExamItaggart.pdf

Problems 2 and 3 from:
http://www.math.washington.edu/~m111/Midterm1/aut12ExamItaggart.pdf

**STUDY TIP**:
Again, print off several old midterms NOW!! The midterms mentioned above and others (all with answer/solutions) can be found in the exam archive here:

http://www.math.washington.edu/~m111/Archives.html

When I was a graduate student I found that an effective use of my time was to:

1. Work through 4-6 exams one night **about a week before the exam**.
2. Then ask questions and clarify over that week. (This also makes you more prepared for review sessions).
3. Work through several more exams two nights before the midterm. In doing this you will expose yourself to a lot of problems and you will give your mind time to ask questions and think about what an exam might look like.

I hope you find these newsletters to be helpful.

See you in class.

Dr. Andy Loveless