

Math 111 End of Week 4 Newsletter

UPCOMING SCHEDULE:

Friday: Section 1.6: Supply & Demand
Monday: Section 2.1: Intro to Quadratics (solving and vertex)
Tuesday: Activity 4
Wednesday: Section 2.2: More with Quadratics (functional notation and applications)
Thursday: HW Q & A - Brings lots of 2.2 and 2.3 questions!!!
Next Friday: Section 2.2/2.3: Algebraic Rates and Algebraic Business Applications.

Here is **Activity 4** bring it to quiz section on Tuesday:

<https://sites.math.washington.edu/~aloveles/Math111Winter2020/Activity04.pdf>

MATERIAL NOTES:

We are discussing Chapter 2 (Quadratics) over the next week. If you miss lecture, then you will miss important introductions on the algebra skills that are essential for working with quadratics. The material we start Monday will be at the heart of everything we do for the next week. So don't miss lecture and be sure to read sections 2.1, 2.2 and 2.3 as soon as possible. You will also see that I have made extensive review sheets containing extra worked out practice problems for these sections. Check them out! My 2.3 review sheet contains 6 full old exam problems with full extremely detailed solutions. If you are struggling, then this gives you plenty of extra examples to try and compare with solutions. So let's get to work, the decisions we make now will affect how well we can show understand on exam 2. So start homework early and get to know these important ideas.

HOMEWORK: Closing Tues: 1.6(pt.1), 2.1 Closing Thur: 2.2

HW Hints:

Big Hint on the Last Homework of Problem 1.6: For a given commodity, assume you take the supply and demand curves and solve for price, p as follows: (this is just an example) Demand Curve: $p = -4q + 100$, Supply Curve: $p = 10q + 244$
Then, in the next year, the government levies a tax of \$42 per item on the supplier and they pass that on as a price increase to the consumer. This is saying the new equilibrium will be when

$$\text{Demand Price} = \text{Supply Price} + 42, \text{ so } (-4q + 100) = (10q + 244) + 42$$

Now you can solve the new equilibrium.

NEW POSTINGS:

Here are some new (and old) postings that should help you now:

1. **Section 1.6 Review with examples: See the second and third page for supply/demand review**
<http://www.math.washington.edu/~aloveles/Math111Winter2020/Section1.6Review.pdf>
2. Read about common calculations errors, **read this before attempting any homework:**
<http://www.math.washington.edu/~aloveles/Math111Winter2020/Math111CalculationErrors.pdf>
3. **Section 2.1 Review with practice problems (Quadratic Equation and Vertex Function):**
<http://www.math.washington.edu/~aloveles/Math111Winter2020/Section2.1Review.pdf>
4. **Section 2.2 Review with practice problems (Functional Notation and applied problems):**
<http://www.math.washington.edu/~aloveles/Math111Winter2020/Section2.2Review.pdf>
4. **Section 2.3 Review with LOTS of practice problems (Applied problem review):**
<http://www.math.washington.edu/~aloveles/Math111Winter2020/Section2.3Review.pdf>
5. If are finding functional notation challenging, here is an additional general review that I posted at the beginning of the term: <http://www.math.washington.edu/~aloveles/Math111Winter2020/FunctionalNotation.pdf>

A STUDY PLAN for the next week

If algebra or general problem solving is challenging for you, then I strongly suggested the following program of study for the next week:

STEP 1 (This should take about 10-15 minutes):

Open the calculation errors review sheet and read it carefully.

Then open the 2.1 review sheet and read the first page and

attempt all problems on page two on your own. These should be quick exercises for you.

Check your answers and read the detailed solutions on the next pages if you got the answers wrong.

STEP 2: Do the 2.1 homework. You should try to complete this today or tomorrow. It is a quick assignment.

STEP 3 (This should take about 10-15 minutes):

Open the 2.2 review sheet, read the first two pages (lots of step-by-step detailed examples).

Attempt the practice problems on page two on your own. These should also be quick.

Check your answers and read the detailed solutions on the next pages if you got the answers wrong.

STEP 4: Work on the functional notation problems from homework 2.2 (these are like the 2.2 review sheet). That is:

Attempt HW Section 2.2 / Problems 1-6, 8(c)(f), 9(a)(c)

Attempt HW Section 2.3 / Problems 7(c), 8(a)

You should be done with these before Monday.

STEP 5 (This should take about 10-15 minutes):

Open the 2.3 review sheet, read carefully (it contains advice about how to do applied problems).

Scan through the problems on the second page. These are six different old exam questions.

(Many of these are identical to homework).

See if you know how you would start each problem.

On the following pages of this review, I provide extremely detailed step-by-step solutions.

STEP 6: Do the rest of the homework from 2.2 and 2.3 (these are all like problems from the 2.3 review).

Get all of 2.2 done by Thursday and most of 2.3 done by Thursday.

OLD EXAMS: Here are some old exam questions that have to do with supply and demand from this last week:

Practice with 1.6 materials (supply and demand):

Problem 2 from: <http://www.math.washington.edu/~m111/Midterm2/win14ExamIlostroff.pdf>

Problem 2 from: <http://www.math.washington.edu/~m111/Midterm2/aut13ExamIbkyel.pdf>

Problem 1 from: <http://www.math.washington.edu/~m111/Midterm2/aut13ExamInichifor.pdf>

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

Dr. Andy Loveless

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