Math 112 End of Week 3 Newsletter

UPCOMING SCHEDULE:

Friday (Today): 9.9 (Derivative Applications: price/revenue/marginal revenue, average cost/total cost/marginal cost)
Monday: 9.9 (Derivative Applications: derivative graphs) and Review
Tuesday: HW Questions and Review
Wednesday: Review (bring old exam questions)
Thursday: **Exam 1 (covers 9.3-9.9)!!!**
Next Friday: 10.1 (Critical Numbers)

Activity 3: Exploring the connections between derivative graphs (y = f'(x)) and original graphs (y = f(x))
Activity 4: Continuing to explore the derivative graph and comparing two derivative graphs
See solutions to the two above activities on the course website.

HOMEWORK: Closing Tuesday: 9.8, 9.9

Homework Stats and Notes (Read this!):

- On 9.4, 9.5, and 9.6: The median score are 100%, great!! So almost all of you are completing the homework with 100% that is a good start. Now practice getting those right in one submission and look at old exams.
- On the derivative problems in 9.4, 9.5 and 9.6, Webassign shows that about 57% of the class got it correct on the first submissions. Remember, you only get one submission on the test. Keep practicing until you can get it right the first time.
- I notice on the first submission, that quite a few of you missed the tangent line questions (9.5/8-9), my guess is you might have missed lecture as we did the same example (or perhaps you didn't read that question carefully). If tangent lines confused you, make sure to look at the 9.5/6 lecture notes for an example of tangent lines. You also can see three more worked examples in my 9.6 review sheet.

NEW POSTINGS: See all these and previous reviews on my course website.

1. Overview of 9.7/9.8 with examples: (combining rules and the 2nd derivative):
https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112review9-7&9-8.pdf

2. Overview of 9.9: (discussion/summary of applications so far):
https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112review9-9.pdf

3. Derivative Graph Fact Sheet:
https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112%20Intro%20To%20Derivatives.pdf

4. Exam 1 Checklist and List of Topics:
https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112reviewExam1.pdf

OLD EXAMS: You can also see the entire exam archive here: https://sites.math.washington.edu/~m112/Archives.html
See previous newsletters for targeted practice by topic on 9.3-9.7!!!

Exam Rules/Advice: *https://sites.math.washington.edu/~aloveles/Math112Winter2019/Math112GeneralExamRules.pdf*
Exam 1 Topics Checklist: *https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112reviewExam1.pdf*
General Math Exam Advice: *https://sites.math.washington.edu/~aloveles/Math112Winter2019/ExamAdvice.pdf*

For practice with 9.8 (2nd Derivatives):
Problem 1b from: https://sites.math.washington.edu/~m112/Midterm1/112_Wi16_MT1_nichifor.pdf
Problem 1c from: https://sites.math.washington.edu/~m112/Midterm1/Wi15_MT1.pdf
Problem 1b from: https://sites.math.washington.edu/~m112/Midterm1/spr13examI.pdf
For practice with 9.9 (Applications):
Problem 2 from: https://sites.math.washington.edu/~m112/Midterm1/win17exam1taggart.pdf
Problem 2 from: https://sites.math.washington.edu/~m112/Midterm1/spr16examItaggart.pdf
Problem 5 from: https://sites.math.washington.edu/~m112/Midterm1/win14examIloveless.pdf
Problem 4 from: https://sites.math.washington.edu/~m112/Midterm1/Sp17_bekyel_MT1.pdf

See last week's newsletter for more exam studying advice. Hope this helps.

- Dr. Andy Loveless