

## Math 124 End of Week 3 Newsletter

### UPCOMING SCHEDULE:

Friday: Section 2.8/3.1 (Derivative Function and Intro to Derivative Rules)

Monday: Section 3.1/3.2 (Derivative rules)

Tuesday: **Practice Exam: Print off and bring this old exam**

<https://sites.math.washington.edu/~aloveles/Math125Fall2017/w17m125e1.pdf>

Wednesday: Section 3.2/3.3 (Basic Derivative Rules, start trig)

Thursday: Homework discussion and test prep (bring homework questions!)

Next Friday: Section 3.3 /3.4 (Trig Derivative Rules, start chain rule)

**NOTE: Exam 1 is Tuesday, October 24<sup>th</sup>, it covers 10.1, 2.1-2.3, 2.5-2.8, 3.1-3.3.**

**WORKSHEET 3** (from last Tuesday's quiz section) has solutions posted here:

[http://www.math.washington.edu/~m124/source/worksheets/aut\\_ws3sol.pdf](http://www.math.washington.edu/~m124/source/worksheets/aut_ws3sol.pdf)

**HOMEWORK:** Closing Friday: hw06S2.7, hw07S2.7-8

Closing Tuesday: hw08S2.8

Closing Thursday: hw09S3.1-2

Closing Next Friday: hw10S3.3

### PREVIOUS HOMEWORK STATS:

hw02S2.1: median score = 97%, median time browser open to assignment = 244 minutes

hw03S2.2: median score = 100%, median time browser open to assignment = 70 minutes

hw04S2.3: median score = 95%, median time browser open to assignment = 83 minutes

hw05S2.5-6: median score = 97%, median time browser open to assignment = 253 minutes

### NEW POSTINGS

Remember the course website is here: <https://sites.math.washington.edu/~aloveles/Math125Fall2017/index.html>

There are several new postings:

1. **Overview of 2.7/8, 3.1/2:** <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124week3review.pdf>

2. **Overview of 3.3/4:** <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124week4review.pdf>

3. **Limit Strategies:** <https://sites.math.washington.edu/~aloveles/Math124Fall2017/Limit%20Strategies.pdf>

4. **Graphs and Limits Review:**  
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124%20Functions%20And%20Limits.pdf>

5. **Limit Practice:** <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124LimitsPractice.pdf>

6. **Continuity Practice:** <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124ContinuityPractice.pdf>

7. **Functional Notation practice:**  
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124%20Functional%20Notation.pdf>

8. **Proof of a limit for  $\sin(x)/x$ :**  
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124%20Trig%20Limit.pdf>

### OLD EXAMS:

Remember, the departmental exam archive is here: <http://www.math.washington.edu/~m124/SampleMid1.php>

and my archive is here: <https://sites.math.washington.edu/~aloveles/Math124Fall2017/LovelessExamArchive.html>

Here are infinite limit problems (2.6) from old midterms:

Problem 1c from: <https://www.math.washington.edu/~aloveles/Math124Winter2017/m124w16e1.pdf>

Problem 1a from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/nichifor2011.pdf>

Problem 1a from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2015aut/pezzoli.pdf>

Problem 1c from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e1.pdf>

Problem 2b from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/exam1v1.pdf>

Here are some general derivative problems (2.7-2.8) from old midterms:

Problem 3 from: <https://www.math.washington.edu/~aloveles/Math124Winter2017/m124w16e1.pdf>

Problem 3 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e1.pdf>

Problem 4 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/exam1v1.pdf>

Problem 6 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/exam1v1.pdf>

Problem 3 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/nichifor2011.pdf>

Problem 5 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e1.pdf>

**ADVICE:**

MY EXAM STUDYING STRATEGY WHEN I WAS A STUDENT: I always like to share how I studied when I was in graduate school. I was an okay student as an undergraduate, but I was an excellent student in graduate school (I got perfect scores on every exam in graduate school in my first year). Here was my studying strategy that seemed to work so well for me:

1. **At least 1 week before an exam**, spend an intense night of studying.  
Try to trick yourself into thinking the exam is the next day. Work through several old exams. This studying should consist of 2 elements:
  - A. *Problem recognition*: Flip through lots and lots and lots of exams quickly and see if you can figure out how to quickly start each problem. Try to look through 5 exams in 15 minutes and make notes of things that confuse you to come back to later.
  - B. *Working out the details*: Carefully work through a few exams in details to practice finishing problems and to practice being careful with your work.
2. After this intense studying session, talk to me or your TA or someone in the MSC to clear up any confusion you have. (Or, like I did, just keep thinking about it on your own, reading and trying examples until you figure it out yourself).
3. **Then at least 2 days before the exam**, put in another night of intense studying. Then when the instructor reviews in class, all the concepts will be fresh in your mind and you will be able to ask good questions.

More days of studying is better. I often started two-three weeks in advance, this is the condensed version. But, if you only could devote two nights to studying, then this is an efficient and effective use of your time and it gives your mind more time to process the information.

I hope some of this helps. Now you have to put in the time and effort to really get to know these concepts well. If you find something helpful in these newsletters, please share it with your classmates.

Dr. Andy Loveless