

Math 124 End of Week 4 Newsletter

UPCOMING SCHEDULE:

Friday: Section 3.3/3.4 (Trig Derivatives) and intro to chain rule
Monday: Review (bring questions)
Tuesday: **Exam 1 in quiz section**, covers 10.1, 2.1-3, 2.5-8, 3.1-3
Wednesday: Section 3.4 (Chain Rule)
Thursday: Homework discussion (bring lots of homework questions!)
Next Friday: Section 10.2 (Derivative rules for parametric equations and motion)

Worksheet 4 has solutions posted here: https://www.math.washington.edu/~m124/source/worksheets/aut_ws4sol.pdf
(Review these solution for practice with basic derivative rules, this also previews material you will see in 10.2 next week).

Homework Schedule:
Closing Friday: hw10S3.3
Closing Next Friday: hw11S3.4, hw12S3.4

Homework Stats:
hw06S2.7: median score = 100%, median time = 160 minutes
hw07S2.7-8: median score = 98%, median time = 163 minutes
hw08S2.8: median score = 96%, median time = 86 minutes
hw09S3.1-2: median score = 97%, median time = 207 minutes

POSTINGS:

The course website is here: <https://sites.math.washington.edu/~aloveles/Math124Fall2017/index.html>

Exam 1 Review:

[https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124Exam1ReviewOverheads%20\(Landscape\).pdf](https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124Exam1ReviewOverheads%20(Landscape).pdf)

Summary of previous postings you may like to use for review include (by topic):

Limits:

Graphs/Limits Review:

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

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

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

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

Derivative Foundations/Skills:

Overview: <https://sites.math.washington.edu/~aloveles/Math124Winter2017/m124%20Derivative%20Foundations.pdf>

Deriv. Graphs: <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124%20Intro%20To%20Derivatives.pdf>

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

Derivative Rules:

Basic Rules: <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124week3review.pdf>

Trig Rules: <https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124week4review.pdf>

Fraction/Exponent Skills Practice:

<https://sites.math.washington.edu/~aloveles/Math124Winter2017/m124%20Basic%20Algebra%20Skills%20for%20Derivatives.pdf>

Tangent/Derivative Applications:

Practice Problems: <https://sites.math.washington.edu/~aloveles/Math124Winter2017/m124%20Tangent%20Review1.pdf>

Precalculus Skills and Facts:

Parametric: <https://www.math.washington.edu/~aloveles/Math124Winter2017/m124ParametricEquationsIntro.pdf>

Trig: <https://www.math.washington.edu/~aloveles/Math120Fall2011/Overview%20of%20Trigonometric%20Functions.pdf>

Lines/Solving/Circular Motion: <https://www.math.washington.edu/~aloveles/Math124Winter2017/m124PrecalcQuiz.pdf>

OLD EXAMS:

Remember, the departmental exam archive is here: <http://www.math.washington.edu/~m124/SampleMid1.php> and my additional exam archive here (which I added a lot of exams to last week):

<https://sites.math.washington.edu/~aloveles/Math124Fall2017/LovelessExamArchive.html>

Here are **derivative rule practice problems** (3.1/3.2/3.3) from old midterms:

Page 2 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e1.pdf>
Page 2 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/nichifor2011.pdf>
Page 2ac from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/taggart2010.pdf>
Problem 3 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2013aut/collingwood.pdf>
Problem 4 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2015aut/pezzoli.pdf>
Problem 1 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2015aut/koblitz.pdf>
Problem 2 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2015aut/ostroff.pdf>

Here are **applied derivative problems** (3.1/3.2/3.3) from old midterms:

Page 4 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e1.pdf>
Page 6 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/nichifor2011.pdf>
Page 3 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/taggart2011.pdf>
Page 5 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/taggart2010.pdf>
Problems 6 and 7 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124f10exam1.pdf>
Problem 5 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124f11e1.pdf>
Problem 5 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2013aut/collingwood.pdf>
Problem 5 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2015aut/pezzoli.pdf>
Problem 2 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm1/2014win/ostroff.pdf>

My previous newsletters have links to targeted review on various topics (like I did above).

STUDYING ADVICE:

Here is what you must do to prepare for the exam.

1. Reread my recipe for success (handed out the first day of class). Here is the link:
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/Recipe%20for%20Success.pdf>
2. Spend 15-30 minutes, quickly reviewing homework questions and answers. Make notes to yourself to come back and review any particular topic that confused you. My exam questions will all be very similar to homework (you don't want to be the student that misses an exam problem that is identical to homework!)
3. Spend 15-30 minutes, quickly flipping through 8-10 old exams. Make notes of questions you don't know how to start. Ask yourself, do I know the first step, then move on to the next question. In this way you can expose yourself to lots of problems and gain confidence and speed.

At this point you will have spent 30-60 minutes looking at problems and you'll have a very good idea about what you need to spend more time practicing. Go clear up your difficulties on those things and do some targeted practice on those topics.

4. Then spend several hours working through random old midterms in detail.
Also look at review sheets that I have posted and the book for topics that confuse you.
And look at my old newsletters for targeted practice on various sections of the book.
5. Ask questions in office hours, the MSC, class, CLUE, friends, etc.... for the things you need clarification on.

I hope some of this helps.

Dr. Andy Loveless