

Math 124 End of Week 6 Newsletter

UPCOMING SCHEDULE:

Friday: Section 3.9 (Related Rates)
Monday: Section 3.9/3.10 (Related Rate/Linear Approximation)
Tuesday: Related Rates worksheet:
https://www.math.washington.edu/~m124/source/worksheets/aut_ws7.pdf
(Ask lots of questions, this is a good time to clear up related rates concerns)
Wednesday: Section 3.10 (Linear Approximation)
Thursday: Homework discussion and test prep (bring homework questions!)
Next Friday: NO CLASS – Holiday

IMPLICIT WORKSHEET (from last Tuesday's quiz section) will have solutions posted here (Friday):
https://www.math.washington.edu/~m124/source/worksheets/aut_ws6sol.pdf

HOMEWORK: Closing Friday: hw14S3.5, hw15S3.5
Closing *Tues*: hw16S3.6-9
Closing *Thurs*: hw17S3.9
Previous HW Stats: hw11S3.4: median score = 97%, median time = 133 minutes
hw12S3.4: median score = 100%, median time = 123 minutes
hw13S10.2: median score = 93%, median time = 260 minutes

NEW POSTINGS

Remember the course website is here:
There are several new postings:

1. **Derivative Rules Reference Sheet and Precalc Solving Review (I handed this out at class):**
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124Derivatives.pdf>
2. **Derivatives Practice Sheet – A random assortment of old exam questions:**
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124DerivativesPractice.pdf>
full solutions:
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124DerivativesPracticeSoln.pdf>
3. **3.9 - The outline of how to do all related rates problems:**
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/relatedrates.pdf>
4. **3.10 - Linear approximation review:**
<https://sites.math.washington.edu/~aloveles/Math124Fall2017/m124LinearApproximationReview.pdf>

See the next page for some old exam problems...

OLD EXAMS:

Here are some **implicit differentiation problems** (3.5) from old midterms:

Problem 4 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm2/2014win/ostroff.pdf>

Problem 5 from: https://www.math.washington.edu/~m124/source/Exams/Midterm2/mid2_a12_perkins/Mid2.pdf

Problem 5 from: <https://www.math.washington.edu/~m124/source/Exams/Midterm2/mid2w11/midterm2.pdf>

Problem 3 from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e2.pdf>

Here are some **logarithmic differentiation problems** (3.6) from old midterms:

Problem 1c from: <https://www.math.washington.edu/~m124/source/Exams/Midterm2/2014win/ostroff.pdf>

Problem 1c from: https://www.math.washington.edu/~m124/source/Exams/Midterm2/mid2_a12_perkins/Mid2.pdf

Problem 1c from: <https://www.math.washington.edu/~m124/source/Exams/Midterm2/mid2w11/midterm2.pdf>

Problem 2a from: <https://www.math.washington.edu/~aloveles/Math124Winter2016/m124w13e2.pdf>

And you can find many more examples in the exam archive. We typically always ask at least one logarithmic differentiation problem on the second midterm and at least one implicit problem on old midterms. So it's a safe bet that your second midterm will have problems that look somewhat like the ones above.

I hope some of this helps.

Dr. Andy Loveless