

## Math 112 End of Week 5 Newsletter

### UPCOMING SCHEDULE:

Friday: 11.1/11.2 - Logarithms and Exponentials  
Monday: 12.1/12.3 - Intro to Antiderivatives and Indefinite Integrals (working backwards)  
Tuesday: Activity on Antiderivatives (working backward – speed to distance) - (print off and bring to quiz section):  
<https://sites.math.washington.edu/~aloveles/Math112Winter2019/Activity06.pdf>  
Wednesday: 12.4 – Antiderivative Applications and Finding the Constant of Integration  
Thursday: Test Prep (on ch. 11 or 12) and homework discussion (bring lots of questions!!)  
Next Friday: 13.2 – Definite Integrals, Areas, and the Fundamental Theorem of Calculus

**HOMEWORK:** Closing Tuesday: HW 10.3 and HW 11.1/11.2 (Part 1)  
Closing Thursday: HW 11.1/11.2 (Part 2) and HW 12.1/12.3

*HW Note:* There are four assignments here, so this may look like a lot of work, but the only application section is 10.3. So get to work on 10.3 now!!!! You have everything you need to know, finish it today!

The other sections 11.1/11.2 are basic derivative rules practice which should be fast after Friday's lecture.

And section 12.1/12.3 is a basic introduction to antiderivatives which will also be fast after Monday's lecture.

Yes, this is a full week of homework (we haven't had any holidays or exams in the last week), so be warned and start early.

**NEW POSTINGS:** There are a lot of new postings. You can find them in the most recent announcement and on the right side of the course page. I also provide direct links below:

- 1. Overview of 10.3:** *Global Max/Min as well as a summary of all questions we can ask*  
<https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112review10-3.pdf>
- 2. Overview of 11.1/11.2:** *Derivatives of exponentials and logarithms with several example problems*  
<https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112review11-1&11-2.pdf>
- 3. Overview of 12.1/12.3:** *Introduction to antiderivatives/integrals with four fully worked out examples*  
<https://sites.math.washington.edu/~aloveles/Math112Winter2019/m112review12-1&12-3.pdf>

**OLD EXAMS:** You can also see the entire exam archive here: <https://sites.math.washington.edu/~m112/Archives.html>

*Note:* We have put together two collections of old exam review problems. I encourage you to print these off now. You will be able to understand how to do most of these problems by the end of next week (and many of them you can already do):

*Exam 2 Application Review:* <https://sites.math.washington.edu/~m112/Midterm2/ExamIIReview.pdf>  
*Answers:* <https://sites.math.washington.edu/~m112/Midterm2/ExamIIReviewAns.pdf>  
*Exam 2 Derivative/Integral Review:* <https://sites.math.washington.edu/~m112/Midterm2/derivsandints.pdf>  
*Answers:* <https://sites.math.washington.edu/~m112/Midterm2/derivsandintsans.pdf>

*For practice with 10.1-10.3: Critical Points, Inc/Dec, Max/Min, Concavity, Inflection*

Problem 5 from: <https://sites.math.washington.edu/~m112/Midterm2/win14examIIloveless.pdf>  
Problem 1(b) and 2 from: [https://sites.math.washington.edu/~m112/Midterm2/112\\_Wi16\\_MT2\\_nichifor.pdf](https://sites.math.washington.edu/~m112/Midterm2/112_Wi16_MT2_nichifor.pdf)  
Problem 2 from: <https://sites.math.washington.edu/~m112/Midterm2/win17examIItaggart.pdf>  
Problem 3 from: [https://sites.math.washington.edu/~m112/Midterm2/Wi15\\_MT2.pdf](https://sites.math.washington.edu/~m112/Midterm2/Wi15_MT2.pdf)

*For practice with 11.1/11.2: Exponential and Logarithm Derivative Rules*

Problem 1 from: <https://sites.math.washington.edu/~m112/Midterm2/win14examIIloveless.pdf>  
Problem 1(a) from: [https://sites.math.washington.edu/~m112/Midterm2/112\\_Wi16\\_MT2\\_nichifor.pdf](https://sites.math.washington.edu/~m112/Midterm2/112_Wi16_MT2_nichifor.pdf)  
Problem 1(a) from: [https://sites.math.washington.edu/~m112/Midterm2/Sp17\\_bekyel\\_MT2.pdf](https://sites.math.washington.edu/~m112/Midterm2/Sp17_bekyel_MT2.pdf)

*For practice with 12.1/12.3: Basic Antiderivatives/Integrals*

Problems 2(a)(b) from: <https://sites.math.washington.edu/~m112/Midterm2/win14examIIloveless.pdf>  
Problem 3(a) from: [https://sites.math.washington.edu/~m112/Midterm2/112\\_Wi16\\_MT2\\_nichifor.pdf](https://sites.math.washington.edu/~m112/Midterm2/112_Wi16_MT2_nichifor.pdf)  
Problem 1(b) from: [https://sites.math.washington.edu/~m112/Midterm2/Sp17\\_bekyel\\_MT2.pdf](https://sites.math.washington.edu/~m112/Midterm2/Sp17_bekyel_MT2.pdf)

Hope this helps.

- Dr. Andy Loveless