Math 126 End of Week 5 Newsletter

UPCOMING ASSIGNMENTS
- *Closing Sun* *(May 3rd):* *NO Reading Quiz, yay!*
- *Closing Tue* *(May 5th)*: 14.3 (part 2), 14.4 HW on **Webassign**
- *Closing Thu* *(May 7th)*: 14.7 HW on **Webassign**.
- *Closing Sun* *(May 10th)***:** Reading/Watching Quiz 4 (Ch. 14) on **Canvas** *(available by Wed)*

UPCOMING SCHEDULE:

Friday:	Live-Stream – 14.7 (critical points and local max/min practice)	**- Watch 14.7 (part 1) Before**
Monday:	Live-Stream – 14.7 (global max/min and applied max/min)	**- Watch 14.7 (parts 2,3) Before**
Tuesday:	Test Prep and Discuss HW with TA	
Wednesday:	Live-Stream – 14.7/15.1 (Intro to Double Integrals)	**- Watch 15.1 Before**
Thursday:	Test Prep, HW and maybe intro to 15.1	
Next Friday:	Live-Stream – 15.1/5.2 (Double over general regions)	**- Watch 15.2 Before**

NEW POSTINGS
1. **Summary of max/min calculus 1 facts on page 1, and summary of max/min calculus 3 facts on page 2**:
    https://sites.math.washington.edu/~aloveles/Math126Spring2020/m124-126max-minreview.pdf
2. **Summary with fully worked out extra examples for 14.4 and 14.7**:
    (This review sheet has full examples of every main concept, please check it out!)
    https://sites.math.washington.edu/~aloveles/Math126Spring2020/14-4and14-7Examples.pdf
3. **More practice with partial derivatives (I posted this last week):**
    https://sites.math.washington.edu/~aloveles/Math126Spring2020/PartialDerivativesPractice.pdf
4. **15-1 Overview**: https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-1Review.pdf
    15-1/15-2 Set up Practice Problems:
        https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-2%20Practice.pdf
        solns: https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-2%20Practice%20Solns.pdf
    15-2 Overview (and more practice):
        https://sites.math.washington.edu/~aloveles/Math126Spring2020/15-2and15-3Review.pdf

OLD EXAMS: As always, at the end of each week, I strongly encourage you to look in the exam archive to practice some exam problems pertaining to the current material.
For practice with 14.7:
Local Max/Min:

Problem 4 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14novikExII.pdf
Problem 3 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14taggartExII.pdf
Problem 2b from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr13lovelessExII.pdf
Problem 2 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf

Global Max/Min:

Problem 4 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14lovelessExII.pdf
Problem 5 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14perkinsExII.pdf
Problem 4a from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf

Applied Max/Min:

Problem 4 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126win14bekyelExII.pdf
Problem 4 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126aut12lovelessExII.pdf
Problem 5 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr10lovelessExII.pdf

For practice with 15.1 and 15.2:

Problem 1(a) from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14perkinsExII.pdf
Problem 3(a) from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf
Problem 2 from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14lovelessExII.pdf
Problem 1(b) from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14perkinsExII.pdf
Problem 4(a) from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14taggartExII.pdf
Problem 2(b) from:	http://www.math.washington.edu/~m126/midterms/midterm2/m126aut13lovelessExII.pdf

More Exam Advice:

Practice checking your work. Some things are easier to check than others. Things that are easy to check should be done right away (if a vector is orthogonal or if the solution you found is actually a solution). If you build checking your work into your routine you can avoid the vast majority of errors.

- *Exam 3 will test Chapter 14 which includes* 14.1, 14.3, 14.4, 14.7 partial derivatives related material (basics of surfaces, computing partials, tangent plane, local max/min, global max/min, applied max/min, second derivative test). **It will be vitally important that you get your partial derivatives are right. You'll want to check those twice (three times…)**.
- Also when you find the critical points, you can check to make sure that they all make BOTH partials equal to zero. This means you can be <u>sure</u> your points are right. So you should never enter an incorrect critical point as it is so easy to check.
- In my opinion, there are fewer total skills going into exam 3. And you won't need as much time for tedious computations. But the processes and ideas are bigger and the problems have more steps. So you will need to practice, practice, practice to build good routines in order to cut down on errors (and check things you can check).

I hope some of this helps. Now you have to put in the time and effort to really get to know these concepts well.

Dr. Andy Loveless