

Math 126 End of Week 6 Newsletter

UPCOMING SCHEDULE:

Friday: Section 14.7, 15.1 (Absolute Max/Min and Intro to double integrals)
Monday: Section 15.2/15.3 (Doubles Integrals over general regions)
Tuesday: Mini-Lecture and Homework Q&A
Wednesday: Section 15.4 (Double Integrals over polar regions)
Thursday: Homework Q&A and Exam Review
Next Friday: Section 15.5 (Double Integral Applications)

HOMEWORK:

Closing Tuesday, May 9th: 14.7(2), 15.1
Closing Thursday, May 11th: 15.2, 15.3
Closing Tuesday, May 16th: 15.4, 15.5 (finish well before closing date, this will be included on exam)

PREVIOUS HOMEWORK STATS:

14.3(2): median score = 97%, median time browser open to assignment = 147 minutes
14.4: median score = 100%, median time browser open to assignment = 88 minutes
14.7(1): median score = 100%, median time browser open to assignment = 80 minutes

Midterm 2 is Tuesday, May 16th in quiz section. It covers

13.3,13.4 (TNB-Frame, curvature, tangent line, normal plane, osculating plane)
14.1,14.3,14.4,14.7, (Contour maps, partial derive, tangent plane, local max/min, global max/min)
15.1-15.5 (Double integrals, general regions, polar regions, center of mass)

Exam 2 Quick Review:

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/sp13m126Exam2QuickReview.pdf>

Exam 2 Conceptual Review: (read this!)

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/Exam2SpecialComments.pdf>

NEW POSTINGS

Remember the course website is here: <https://sites.math.washington.edu/~aloveles/Math126Spring2017/index.html>

There are several new postings:

1. 15.1 and 15.2 Overview:

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/sp10m126week7reviewa.pdf>

2. 15.3 and 15.4 Overview (includes practice problems on switching order of integration):

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/sp10m126week7reviewb.pdf>

See the next page for integration review and old exam practice.

SUPPLEMENTAL POSTINGS ON INTEGRATION:

You now need to remember how to integrate. You are expected to know all integration techniques from Math 125. Here are things to review if you have forgotten (in order of importance for this class). These are all on my course website. Also remembers you can read the book for more examples (7.1 to 7.5).

1. Integrals you can quote in one step:

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/7-5IntegralsWeKnow.pdf>

2. Very Basic Integrals I expect you to be able to do quickly (only require simplification or substitution)

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/BasicIntegralPage.pdf>

Solutions: <https://sites.math.washington.edu/~aloveles/Math126Spring2017/BasicIntegralPageSolutions.pdf>

3. Examples of Trig Integral Techniques (you'll need this in section 15.4):

<https://sites.math.washington.edu/~aloveles/Math126Spring2017/IntegratingPowersOfTrig.pdf>

4. You should also review your other integration techniques, here are a few things to help you:

Flowchart: <https://sites.math.washington.edu/~aloveles/Math126Spring2017/IntegrationMethods.pdf>

Full Review: <https://sites.math.washington.edu/~aloveles/Math126Spring2017/IntegrationTechniques.pdf>

11 Random Problems: <http://www.math.washington.edu/~aloveles/Math125Winter2015/7-5IntegralsReview.pdf>

Full Solutions: <http://www.math.washington.edu/~aloveles/Math125Winter2015/7-5IntegralsReviewSolns.pdf>

30 Random Problems: <http://www.math.washington.edu/~aloveles/Math125Winter2015/30RandomIntegralsSolns.pdf>

OLD EXAMS:

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>

For practice with 15.3:

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>

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr13lovelessExII.pdf>

Problem 3(b) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf>

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr10lovelessExII.pdf>

For practice with 15.4:

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14lovelessExII.pdf>

Problem 4(b) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr14taggartExII.pdf>

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126aut13lovelessExII.pdf>

Problem 4(b) from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr11lovelessExII.pdf>

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm2/m126spr10lovelessExII.pdf>

I hope some of this helps.

Dr. Andy Loveless