

## Math 126 End of Week 3 Newsletter

### UPCOMING SCHEDULE:

Friday: Section 10.1/13.1 and 10.2/13.2 (Parametric Curve Calculus)  
Monday: Section 10.2/13.2 and 10.3 (Parametric and Polar)  
Tuesday: Homework Q & A (Bring lots of HW questions!)  
Wednesday: Section 10.3 and 13.3 (Polar and Measuring 3D Motion)  
Thursday: Homework and Review (Bring lots of old exam questions!)  
Next Friday: Section 13.3 (Measuring 3D Motion)  
Next Monday: Review  
Next Tuesday: Exam 1

### Exam 1 is Tuesday, February 2<sup>nd</sup>: It includes 12.1-12.5, 10.1-10.3, 13.1-13.2, 13.3 (part 1)

There will be four pages of questions. You will have **50 minutes**. Time will be a factor, so make sure you time yourself as you are practicing old exams. Many students have trouble adjusting to the shorter time on the first exam (so consider yourself warned).

**WORKSHEET 3** solutions (from Thursday's quiz section) are posted here:

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp14m126worksheet3solns.pdf>

### HOMEWORK:

Closing Tuesday at 11pm: 10.1/13.1, 10.2/13.2  
Closing Thursday at 11pm: 10.3  
Closing Next Tuesday at 11pm: 13.3 (part 1)

### PREVIOUS HOMEWORK STATS:

12.5(1): median score = 100%, median time browser open to assignment = 59 minutes  
12.5(2): median score = 100%, median time browser open to assignment = 67 minutes  
12.5(3): median score = 98%, median time browser open to assignment = 155 minutes  
12.6: median score = 100%, median time browser open to assignment = 110 minutes

### NEW POSTINGS

Remember the course website is here: <http://www.math.washington.edu/~aloveles/Math126Winter2016/index.html>

There are several new postings:

1. **One Page Reference of Key Formulas you need to understand going into Exam 1:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp14m126Exam1FactSheet.pdf>

2. **Homework Hints for 10.1/13.1 and 10.2/13.2:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/f13m126ParametricHomeworkNotes.pdf>

3. **Brief Overview of 12.5, 12.6, 10.1, and 13.1 facts:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp10m126week2review.pdf>

4. **Brief Overview of 10.2, 13.2, and 10.3 facts:**

(You do NOT need to know the surface area formula for the exam, ignore that):

<http://www.math.washington.edu/~aloveles/Math126Winter2016/sp10m126week3review.pdf>

5. **Lecture summaries** (I strongly encourage you to print off the 12.6 and 10.1/13.1 overheads for your own reference):

<http://www.math.washington.edu/~aloveles/Math126Winter2016/lecture.html>

6. **Intro to Polar Coordinates with Examples:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/PolarCoordinatesOverview.pdf>

### SUPPLEMENTAL POSTINGS

1. You might be interested in polar graph paper when you do 10.3. Check these out:

**Mid-Sized Printable Polar Graph Paper:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/PolarGraphPaperTwoMedSize.pdf>

**Large-Sized Printable Polar Graph Paper:**

<http://www.math.washington.edu/~aloveles/Math126Winter2016/PolarAndCartesianGraphPaper.pdf>

## OLD EXAMS:

Remember there are many old exams (most with solutions) in the departmental exam archive here:

<http://www.math.washington.edu/~m126/midterms/midterm1.php>

and in my additional exam archive here:

<http://www.math.washington.edu/~aloveles/Math126Winter2015/examarchive.html>

(you probably should just ignore the exams marked honors unless you want an extra big challenge).

For practice with 12.6 (intro to surfaces) material you might try:

Problem 2 from: <http://www.math.washington.edu/~m126/midterms/midterm1/m126spr11lovelessExl.pdf>

Problem 3 from: <http://www.math.washington.edu/~m126/midterms/midterm1/m126spr14novikExl.pdf>

Problem 2a from: <http://www.math.washington.edu/~m126/midterms/midterm1/m126spr13lieblichExl.pdf>

Problem 5 from: <http://www.math.washington.edu/~m126/midterms/midterm1/m126aut09solomyakExl.pdf>

Problem 7 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/Taggartf09e1.pdf>

For practice with 10.1 and 10.2 you might try:

Problem 3 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/sp11m126e1.pdf>

Problem 5 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/sp10m126e1.pdf>

Problem 6 from: [http://www.math.washington.edu/~m126/midterms/midterm1/mid1\\_win09\\_perkins.pdf](http://www.math.washington.edu/~m126/midterms/midterm1/mid1_win09_perkins.pdf)

Problem 6 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/Taggartf09e1.pdf>

Problem 4 from: <http://www.math.washington.edu/~m126/midterms/midterm1/m126aut10conroyExl.pdf>

For practice with 13.1 and 13.2 you might try:

Problem 5b from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/sp11m126e1.pdf>

Problem 4 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/sp10m126e1.pdf>

Problem 4 from: [http://www.math.washington.edu/~m126/midterms/midterm1/mid1\\_win09\\_perkins.pdf](http://www.math.washington.edu/~m126/midterms/midterm1/mid1_win09_perkins.pdf)

Problem 3 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/Taggartf09e1.pdf>

Problem 5 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/Taggartf09e1.pdf>

For practice with 10.3 you might try:

Problem 4 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/sp11m126e1.pdf>

Problem 3 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/sp10m126e1.pdf>

Problem 1 from: [http://www.math.washington.edu/~m126/midterms/midterm1/mid1\\_win09\\_perkins.pdf](http://www.math.washington.edu/~m126/midterms/midterm1/mid1_win09_perkins.pdf)

Problem 4 from: <http://www.math.washington.edu/~aloveles/Math126Spring2013/Taggartf09e1.pdf>

Problem 5 from: <http://www.math.washington.edu/~m126/midterms/midterm1/m126aut10conroyExl.pdf>

You should look at more old exams than just these, but this hopefully gives you some targeted practice.

I hope some of this helps.

Dr. Andy Loveless