Math 126 End of Week 2 Newsletter

UPCOMING SCHEDULE:
Friday: Section 12.5 (lines/planes) and 12.6 (traces and names of some 3D surfaces).
Monday: NO CLASS
Tuesday: Homework Question and Answer (bring homework questions pertaining to 12.1-12.4).
Wednesday: Section 10.1/13.1 (intro to parametric curves 2D and 3D)
Thursday: Worksheet on miscellaneous skills from parametric curves and polar
                Coordinates.
Friday: Section 10.2/13.2 (calculus on parametric curves 2D and 3D)

WORKSHEET 2(a)(b)(c) solutions (from Thursday's quiz section) are posted here:
http://www.math.washington.edu/~aloveles/Math126Winter2016/sp13m126Worksheet2aSolns.pdf
http://www.math.washington.edu/~aloveles/Math126Winter2016/sp13m126Worksheet2bSolns.pdf
http://www.math.washington.edu/~aloveles/Math126Winter2016/sp14m126worksheet2cSolns.pdf
(Read through these to make sure you understood the concepts in those worksheets)

WORKSHEET 3: Print this off and bring it to quiz section next Thursday.
http://www.math.washington.edu/~aloveles/Math126Winter2016/sp14m126worksheet3.pdf

HOMEWORK:
 Closing Tuesday at 11pm: 12.5 (part 1), 12.5 (part 2), 12.5 (part 3)
 Closing Thursday at 11pm: 12.6

PREVIOUS HOMEWORK STATS:
12.1:   median score = 100%,   median time browser open to assignment = 135 minutes
12.2:   median score = 100%,   median time browser open to assignment = 110 minutes
12.3:   median score = 96%,   median time browser open to assignment = 120 minutes
12.4(1): median score = 100%,   median time browser open to assignment = 20 minutes
12.4(2): median score = 100%,   median time browser open to assignment = 36 minutes

Homework Notes:
1. The vast majority of the class got at or near 100% on the first three assignments. It is an important **first step** to do well on all the homework. Getting high scores on the homework does not, in itself, guarantee a good grade on the exam. The exam problems will look a lot like homework so if you **understand** all the homework, then you will do well on the exam. Just make sure you could answer similar questions in an exam-like situation. See more advice below.

2. *Remember to review the homework and look back at solutions*: Only 3 student in the class have gone back and looked at the previous homework solutions. Please remember to go back and review the homework and the solutions at the end of each week (even if you get the questions correct, it is good to see solutions for other approaches to the problem).

3. Remember that I round up by 5%, so even if you miss a few homework problems you can still get 100% for homework.

4. Also remember that 100% on homework certainly does NOT guarantee a good grade on the exams.
It is vital to:
  a) Get homework correct in one submission (just like on an exam).
  b) Practice checking your work (just like on an exam).
  c) Ask yourself if you could do a similar problem on an exam (all homework is fair game).
  d) Start looking at old midterm exams and seeing if you can do some of the problems.
  e) If you want more practice, go find similar problems in the textbook (or eBook).

NEW POSTINGS

Remember the course website is here:

http://www.math.washington.edu/~aloveles/Math126Winter2016/index.html

There are several new postings:

1. **An overview of basic facts from 12.5 Intro to Lines and Planes**:

http://www.math.washington.edu/~aloveles/Math126Winter2016/12.5%20Overheads%20(Landscape).pdf

2. **One-Page Summary and Flowcharts for Finding Lines and Planes**:

http://www.math.washington.edu/~aloveles/Math126Winter2016/12-5%20Summary%20Overheads%20(Landscape).pdf

3. **Thirteen Practice Problems of each type for lines and planes (full solutions included!):**

http://www.math.washington.edu/~aloveles/Math126Winter2016/sp12m126PlanesAndLines.pdf

4. **Review sheet about lines and planes (contains examples of finding intersections of lines and finding intersections of planes):** http://www.math.washington.edu/~aloveles/Math126Winter2016/sp14m126review12-5.pdf

5. **Summary of 12-6 (Names of some 3D shapes) with visuals and examples of each**:

http://www.math.washington.edu/~aloveles/Math126Winter2016/12-6%20Overheads%20(Landscape).pdf

SUPPLEMENTAL POSTINGS

1. **For your own interest, I posted a discussion of conic sections which includes some visuals of hyperbolas**.

http://www.math.washington.edu/~aloveles/Math126Winter2015/ConicSectionsOverhead.pdf

OLD EXAMS:

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 challenge).

For practice with 12.5 (Lines and Planes) you might try:

Problem 2 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126aut13lovelessExI.pdf

Problem 1 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr13lovelessExI.pdf

Problem 3 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr14taggartExI.pdf

Problem 2 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126win14bekyelExI.pdf

Problem 2 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr14rothvossExI.pdf

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

Problem 2 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr11lovelessExI.pdf

Problem 3 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr14novikExI.pdf

Problem 2a from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr13lieblichExI.pdf

Problem 5 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126aut09solomyakExI.pdf

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