Math 126 End of Week 1 Newsletter

Every Friday, I will email the class and post a newsletter. These newsletters will contain a summary of the calendar, information about homework, links to review material and studying advice. The studying advice will include old exam problems to look at each week.

UPCOMING SCHEDULE:

Friday: Section 12.3 (dot products, testing orthogonality and projections).
Monday: Section 12.4 (cross products and finding orthogonal vectors), intro to 12.5 (lines/planes)
Tuesday: Homework Question and Answer (bring homework questions pertaining to 12.1-12.4).
Wednesday: Section 12.5 (lines and planes)
Thursday: Lines/Planes and Worksheet Discussion (it would be helpful if you attempted some 12.5 HW before this quiz section) Bring Worksheets 2a, 2b, and 2c.
Next Friday: Section 12.5 (lines/planes) and 12.6 (traces and names of some 3D surfaces)

Worksheet 1 (from Tuesday's quiz section) solutions:
https://sites.math.washington.edu/~aloveles/Math126Spring2017/sp14m126worksheet1solutions.pdf

Worksheet 2(a)(b)(c) (for next Thursday's quiz section) are posted here:
2a: https://sites.math.washington.edu/~aloveles/Math126Spring2017/m126worksheet2.pdf
2b: https://sites.math.washington.edu/~aloveles/Math126Spring2017/m126worksheet3.pdf
2c: https://sites.math.washington.edu/~aloveles/Math126Spring2017/sp14m126worksheet2.pdf
Print these off and bring them to quiz section next week.

HOMEWORK: Closing Tuesday: 12.1, 12.2, 12.3
Closing Thursday: 12.4(part 1), 12.4(part 2), 12.5(part 1)

NEW POSTINGS There are several new postings on the course website, including:

1. 12.1-12.4 Brief Review:https://sites.math.washington.edu/~aloveles/Math126Spring2018/sp10m126week1review.pdf
2. 12.1 Review: https://sites.math.washington.edu/~aloveles/Math126Spring2018/sp14m126review12-1.pdf
3. 12.2 Review: https://sites.math.washington.edu/~aloveles/Math126Spring2018/sp14m126review12-2.pdf
4. 12.3 Review: https://sites.math.washington.edu/~aloveles/Math126Spring2018/sp14m126review12-3.pdf
5. 12.4 Review: https://sites.math.washington.edu/~aloveles/Math126Spring2018/sp14m126review12-4.pdf
6. 12.5 Review: https://sites.math.washington.edu/~aloveles/Math126Spring2018/sp14m126review12-5.pdf
7. Visual Vector Description of Lines and Planes (examine these pictures before lecture next week):
https://sites.math.washington.edu/~aloveles/Math126Spring2018/Lines-Planes%20Visuals.pdf

OLD EXAMS: *It is vital that you spend some time at the end of each week reviewing the previous homework and practicing your homework stills on old exam problems*.

The departmental exam archive here: https://sites.math.washington.edu/~m126/midterms/midterm1.php
My exam archive: https://sites.math.washington.edu/~aloveles/Math126Spring2018/examarchive.html
For practice with 12.1 and 12.2 material you might try:
Problem 1a from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr12taggartExI.pdf
Problem 1a from: https://sites.math.washington.edu/~aloveles/Math126Spring2017/f13m126e1v1.pdf
Problem 1ab from: http://www.math.washington.edu/~m126/midterms/midterm1/m126aut12bekyelExI.pdf
For practice with 12.3 and 12.4 material you might try:
Problem 1b from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr12taggartExI.pdf
Problem 1c from: http://www.math.washington.edu/~m126/midterms/midterm1/m126aut12bekyelExI.pdf
Problem 2a from: https://sites.math.washington.edu/~aloveles/Math126Spring2017/sp14m126e1.pdf
Problem 1bc from: http://www.math.washington.edu/~m126/midterms/midterm1/m126spr10lovelessExI.pdf
Problem 1 from: http://www.math.washington.edu/~m126/midterms/midterm1/m126aut09solomyakExI.pdf

Let me know if any of this helps. See the next page for some advice, extra comments, supplemental material and homework hints.

SPECIAL NOTES AND ADVICE

ADVICE AND GETTING HELP:

How to get high grades in this course

If you want to get a high grade in this course, then start by reading my recipe for success which is here:

https://sites.math.washington.edu/~aloveles/Math125Winter2018/Recipe%20for%20Success.pdf

The key is to treat every homework question like an exam problem!

How to get help in this course:

If you get stuck on homework or in studying for exams and you need help, then first start by reading this:

https://sites.math.washington.edu/~aloveles/Math125Winter2018/124-5-6%20Help.pdf

HOMEWORK HINTS:

See the textbook and my review sheets for several hints and examples.
For example, my 12.1 review sheet contains a fully worked on example on completing the square and circles.
And see the visuals in 12.2 and 12.3 for help with vector sum, vector difference, and projection problems.
So, check out all the review material for more help.

SUPPLEMENTAL POSTINGS

1. *Physics and Vectors Supplement (read this for more background on some ways vectors appear in science):*
   https://sites.math.washington.edu/~aloveles/Math126Spring2018/AVerySmallBitOfPhysicsCh12-m126.pdf
2. If you are having trouble with Math 124 concepts, look at my archive of review materials here (you will find practice and review sheets for limits and derivatives): sites.math.washington.edu/~aloveles/Math124Winter2017/index.html
3. If you are having trouble with Math 125 concepts, look at my archive of review materials here (you will find practice and review sheets for all the integral facts): sites.math.washington.edu/~aloveles/Math125Winter2017/index.html
   Also remember your textbook contains sections on all these topics, so you can read your textbook for review.
4. Unit circle and basic trig review:
   http://www.math.washington.edu/~aloveles/Math120Fall2011/Overview%20of%20Trigonometric%20Functions.pdf
5. Full Precalc Review Sheet:
   http://www.math.washington.edu/~aloveles/Math125Spring2016/m124PrecalcReview.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