

Math 203 Linear Algebra  
Professor Donnay, Spring 2018  
Course website linked to Prof Donnay's homepage:  
<https://www.brynmawr.edu/people/victor-j-donnay>

### Introduction

To be handed in at class on Wednesday Jan 24.

Name:

Name you like to be called:

What are some issues facing the nation and the world that you are concerned about?

Reason for taking this course:

Math courses you have already taken or are taking this term:

What experience (if any) have you had with computing and computer programming (ex. Took computer science course, familiar with Excel or Mathematica).

One thing you enjoyed doing over winter break:

Anything else you would like me to know or any questions you have for me?

Go to the course website linked from Prof Donnay's homepage (see above).

- a. Look at the "Play-by-Play" page. How many late hws is each student allowed?
- b. Look at the syllabus page. What scoring system is used for assignments in the course?
- c. How often is HW assigned?
- d. How many midterms are there in the course?

**Math Homework:**

Do these problems on a separate sheet with your name at the top. First you will go over them with your groups then you will hand them in.

1. The dinning hall is making salad by mixing two types of lettuce: green leaf lettuce which costs \$1.50 per pound and the more tasty red leaf lettuce that costs \$3.00 per pound. They would like to have as much of the red leaf as possible but their budget for the salad is only \$2.00 per pound. They will make 50 pounds of salad. How many pounds of each type of salad should they use in the mix? (Follow the steps from the in-class worksheet).
2. For each of the following three systems of linear equations,
  - a. First on the same diagram, draw the two lines given by the equations. Explain what steps you took to determine how to graph the lines.
  - b. Based on your drawing, how many solutions does the system of equations have?
  - c. Using algebra, find the exact values of the solutions. Show your steps.
  - d. HW: Read Sect 1.1 from Lay textbook. He introduces some terms (words) to describe different types of linear systems (top of p. 4 and middle of p. 7). For each of the three systems below, which of those terms apply?

i.  $4x - 2y = -6$   
 $x + y = 5$

ii.  $4x - 2y = -6$   
 $2x - y = -4$

iii.  $4x - 2y = -6$   
 $8x - 4y = -12$