

## SECOND CHANCE EXERCISE - VECTORS

This second chance exercise is for people who want to review vector arithmetic.

If one of your lowest three exam problem grades was on the “goose problem”, you may complete it and turn it in to earn an extra homework grade, which we will help you earn 100% on. This will help your end-of-term average.

If you do this, it is due on the last day of recitation.

This exam problem covered vector and subtraction. In it, you needed to determine which pair of vectors added together to make a third, then use vector addition/subtraction to determine the unknown vector.

1. You did a very similar problem in Week 2 Day 2's recitation on vectors (<https://walterfreeman.github.io/phy211/recitation/week2/recitation-vectors.pdf>). Which one was that?
2. The first practice exam is here: <https://walterfreeman.github.io/phy211/practice-exam-1.pdf>.
  - (a) Which two problems on the practice exam involve similar ideas?
  - (b) How is each of those problems similar to the one you had on Exam 1 (with the geese)? How is each of them different?
3. Describe in a paragraph how you have used the ideas of vector addition elsewhere in the semester, particularly in Unit 2 (involving forces).
4. Write a problem that evaluates students' ability to do vector addition and subtraction, similar to the “goose problem” from Exam 1 and the two problems you identified on Practice Exam 1. Then solve it. (*Particularly good problems here will earn extra credit!*)