

A. Due at the start of class on Day 3 (but not collected): Complete these exercises on vectors, just to practice basic skills. If you feel that you need more practice like this, then do more problems from the book.

- 12.2 Exercises 13, 23, 48
- In 4-dimensional space, find a parametrization of the line through the two points $\vec{p} = (-1, 5, 2, 1)$ and $\vec{q} = (3, 4, 4, 1)$.
- 12.3 Preliminary Questions 3, 5
- 12.3 Exercises 5-10, 13, 15, 29a, 31, 36, 49, 59, 62

B. Due at the start of class on Day 3: Complete Writing Assignment 2 (*A sequence of equations is a sequence of statements*) from the course web site. You will submit this part of the assignment separately from the rest of your homework packet.

C. Due at the start of class on Day 3: Submit these problems, with the problems assigned on Day 1, as part of your weekly homework packet. Submit polished solutions in complete sentences, including all necessary work and no unnecessary work, in the order assigned.

1. 12.3 Exercise 78
2. 12.3 Exercise 83
3. 12.3 Exercise 87. (Do not use $\vec{v} \cdot \vec{w} = \|\vec{v}\| \|\vec{w}\| \cos \theta$. Follow the procedure outlined.)