Math 4300 - Test 2 Study Guide

Test 2 covers HW 3, HW 4, HW 5.

Bring a calculator that isn't your phone to the exam.

Computations:

- Vector equation of a line in the Euclidean plane.
  HW 3 – problem 1.

- Determine if A – B – C.
  HW #4 – problems 1, 2, 3.

- Draw an accurate picture of line segments and rays.
  HW #5 – problems 1, 2, 3.

- Find a C on a ray that gives a line segment of a certain length.
  HW #5 – problems 4, 5.

Proofs:
There will be at least one proof directly from the homework.

- Proofs involving dot product and norm and vectors.
  HW #3 – problems 2, 3.

- Proofs about A – B - C.
  HW #4 – problems 4, 5, 6, 7, 8, 9.

- Proofs about line segments, rays, and lines.
  HW #5 – problems 6, 7, 8, 9(a).

- **Proofs NOT on the exam.**
  HW #4 – problem 10.
  HW #5 – problems 9(b), 10, 11.