## **Basic Information**

This assignment is due on Gradescope by 1:30 PM on Friday, February 7.

Make sure you understand MHC <u>honor code</u> and have carefully read and understood the additional information on the <u>class syllabus</u>. I am happy to discuss any questions or concerns you have!

Since this is a 200-level mathematics course, quite a few homework questions will ask you to explain your reasoning or process for solving a problem. Whenever possible, write your explanations in complete sentences and write your answers as if you were explaining to a peer in the class.

The homework problems will be graded anonymously so please do not put your name or other identifying information on the pages.

## **Turn In Problems**

- 10.2: 14, 18
- 10.3:8,22
- 10.4: 8, 20
- Find a unit vector that is orthogonal to both  $\langle 1,1,0 \rangle$  and  $\langle 1,0,1 \rangle$
- Use vectors to decide whether the triangle with vertices on the points (1, -3, -2), (2,0, -4), and (6, -2, -5) is a right-angle triangle.

## Additional Problems (to do on your own, not to turn in)

- 10.2: 13, 17, 25
- 10.3: 9, 21
- 10.4:7