## **Basic Information**

This assignment is due on Gradescope by 3 PM on Friday, September 20.

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**

- 10.5: 8, 12, 18
- 10.6: 8, 12, 20, 26
- 12.1:16
- Do particles traveling along the following two lines collide? If so where? If not, why not?

$$\langle 1+t, \, 4-t, \, 3t+1 \rangle$$
  $\langle 3-t, \, 2t+1, \, 2t+2 \rangle$ 

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

- 10.5: 7, 11, 17
- 10.6: 7, 11, 19, 25
- 12.1:17