

Basic Information

This assignment is due on Gradescope by **1:30 PM on Friday, February 14**.

Make sure you understand MHC [honor code](#) and have carefully read and understood the additional information on the [class syllabus](#). 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, 10, 12, 16, 18
- 10.6: 8
- 11.2: 22, 24
- Do particles traveling along the following two lines collide? If so where? If not, why not?

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

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

- 10.5: 7, 9, 11, 15, 17
- 10.6: 7
- 11.2: 21, 23