

Basic Information

This assignment is due on Gradescope by **1:30 PM on Tuesday, November 12**.

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!

A major component of this class is helping you understand *why* the mathematics you use works the way it does. To that end, make sure you show all your work as you will be graded on the *process* you use, not just your final answer. And if a question asks you to explain why something is true, be sure to answer that part of the question in complete sentences. Remember, answers without any work will receive 0 points.

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

Turn-In Problems

4.3: 6, 20

4.5: 18b

4.7: 4, 8

4.6: 12, 16 (Hint for 16: to find $x'(t)$, find an equation for the perimeter and then take a derivative of both sides of that equation.)

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

4.3: 7, 21

4.5: 15

4.7: 5, 9

4.6: 13, 17