

MATH 203 Calculus III

Homework 14

Basic Information

This assignment is due on Gradescope by **3 PM on Tuesday, November 5**.

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

- 13.1: 12, 16, 18, 22 You may use Desmos to help with the graphing. For the problems where there looks like there is no function to integrate, the function is $f(x, y) = 1$. You might remember we talked about this as a nice way to compute *area* of a region.
- 13.2: 8, 14 a and b, 18 a and b, 20

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

- 13.1: 13, 15, 17, 21
- 13.2: 7, 13 a and b, 17 a and b, 19