

General Stuff

- Office Hours
 - T: 12:30 - 1:30, Th: 10 - 11
- Midterm 3 3/4 (best day for a parade, March 4th)
 - 2 problems
 - 30 minutes to take exam
 - 5-10 minutes to upload to gradescope
 - 11:15 - 11:25 questions before quiz
 - 11:25 - 11:55 quiz
 - 11:55 - 12:05 uploading
- Lab after quiz from 12:20 - 1:10

1. Change the order of integration for the integral

$$\int_0^1 \int_0^{1-x^2} 2x \, dy \, dx.$$

2. Change the order of integration

$$\int_{-2}^2 \int_{-\sqrt{4-x^2}}^0 dy dx.$$

3. Bound the integral

$$\int_0^2 \int_0^3 \frac{1}{1+x^2y^2} dA$$

using the Mean Value Inequality.

4. Set up the triple integral (!)

$$\iiint_{\Omega} 2z \, dV$$

where Ω is the region bounded by $x = 2 - y^2 - z^2$ and $x = z$.