

Math 53 (Multivariable Calculus), Section 102 & 108

Week 8, Friday

Oct 14, 2022

For the other materials: seewoo5.github.io/teaching/2022Fall

1. Evaluate the following double integrals.

(a) $\int_0^1 \int_1^2 (x + e^{-y}) dx dy$

(b) $\int_0^1 \int_0^1 \sqrt{x+y} dx dy$

(c) $\int_0^1 \int_{3y}^3 e^{x^2} dx dy$

(d) $\iint_D \sqrt{4 - x^2 - y^2} dx dy$, D is the disc with center the origin and radius 2.