

MATH 202: VECTOR CALCULUS
READING QUESTIONS FOR MONDAY WEEK 9

Reading assignment. CAES §6.9.

Problem 1. CAES 6.9.1.

Problem 2. Let $S \subseteq \mathbb{R}^2$ denote the region with $0 \leq x \leq 3$ and $0 \leq y \leq x$. Use change of variables to compute

$$\int_S \frac{1}{\sqrt{x^2 + y^2}}.$$