

Math 3298 Worksheet 14: Double integrals

Group members (2 to 4): _____

- (1) Approximate the double integral $\int_0^8 \int_0^4 (x^2 - 4x + 3)y \, dx \, dy$ with two Riemann sums, (a) one with two subdivisions in each dimension, and (b) another with four subdivisions in x and two in y .

- (2) Compute the exact integral for the previous problem by iterated integration.
How accurate were your answers in the previous exercise?