

Math 3298 Worksheet 10: Double integrals

Group members (1 to 3): _____

(1) Approximate the double integral $\int_0^8 \int_0^4 (x^2 - 4x + 3)y \, dx \, dy$ with two Riemann sums:

(a) With two subdivisions in each dimension.

(b) 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?