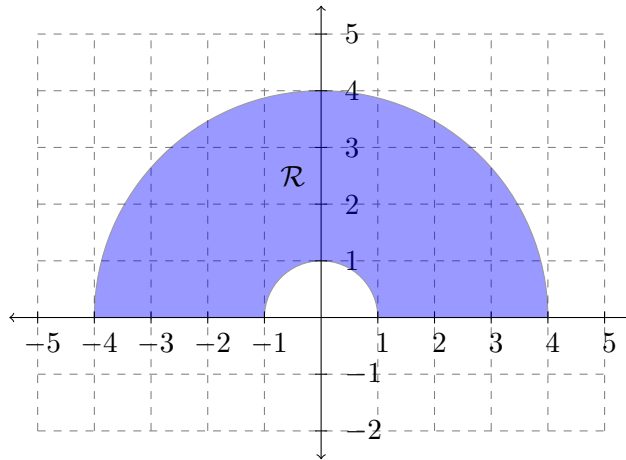


# MATH 251: Practice 17

June 25, 2015

Name: \_\_\_\_\_

1. Integrate  $f(x, y) = y$  over the region below.



**2.** Find the volume of the region in the first octant bounded by the cylindrical shells  $1 \leq x^2 + y^2 \leq 4$  and the planes  $z = x + y$  and  $z = 2x + 2y$ .