Quiz 6 for Math 055 Calculus III. April 17, 2009

Name and ID:

General guidelines: Write down all your work. That is the way you will be asked to do it in the tests. You are not allowed to use calculators during this quiz.

Question 1: Let $R = [0, 1] \times [1, 2]$. Compute the following integral:

$$\int \int_{R} \frac{x}{y} \, dA$$

Question 2: Compute the average of $f(x, y) = x^2 + y$ in the rectangle $R = [1, 3] \times [2, 3]$. 