Math 055 Calculus III. April 16, 2010

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 $R = [1, 3] \times [2, 3]$. 