1. [5pts] Let $R = [0, 4] \times [0, 4]$. Compute a Riemann sum with $m = n = 2$ to estimate the value of \( \iint_R (x - 2y) \, dA \) taking as sample points the centers of the subrectangles.

2. [5pts] Evaluate $\iint_R \frac{1}{(x + y)^2} \, dA$, where $R = [0, 1] \times [1, 2]$. 