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

2. [5pts] Evaluate $\iint_R \cos(x - 2y)\,dA$, where $R = [0, \pi] \times [0, \pi/2]$. 