Math 2263, Quiz 7
You must show all work for full credit, you have 15 min to finish it.

1.(7 pt) Evaluate the double integral: $\iint_D y^2 dA$ where D is the triangular region with vertices $(0, 1), (1, 2), (4, 1)$.

2.(8 pt) Evaluate the given integral by **changing to polar coordinates**: $\iint_D (x + y) dA$ where D is the region $\{(x, y) \mid x^2 + y^2 \leq 4, x \geq 0, y \geq 0\}$.