Name:

You have 20 minutes to do this quiz. You may not use any books or notes while you do the quiz nor discuss the quiz with anyone. You may use a calculator. There are 3 questions.

1. Draw the domain D in the first quadrant of the xy plane that is bounded by the curves y = x^2 and y = 1.

2. Set up (but do not evaluate) the integral \( \int \int_D f(x, y) \, dA \) for D the region described in (1).
3. Draw the domain $R = \{(x, y): 0 \leq x^2 + y^2 \leq 4\}$. Then set up and evaluate the integral
\[ \iint_{R} \sqrt{x^2 + y^2} \, dA. \]