

Quiz 8 – MATH 3503 Fall 2022

In these problems, make sure you draw the region (clearly indicate D in your picture) being integrated over, set them up as **both** $dydx$ and $dx dy$ -type integrals, and show how you “shoot the arrow”. Do **not** evaluate the integral, just set it up!

1. $\iint_D x dA$ where D is the region bounded by the curves $x = 1$, $y = 0$, and the curve $y = x$.

2. $\iint_D xy dA$ where D is the region bounded by the curves $y = x^2$, $x = 1$, $x = 2$, and the curve $y = 4$.