

Math 233 - Quiz 10

November 16, 2023

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (5 points) Sketch the region of integration, reverse the order of integration, and evaluate.

$$\int_0^4 \int_{\sqrt{x}}^2 \frac{3}{2+y^3} dy dx$$

2. (5 points) Evaluate the double integral

$$\iint_T \frac{y}{x^2 + y^2} dA,$$

where T is the trapezoid bounded by the graphs of $y = x$, $y = 2x$, $x = 1$, and $x = 2$.