

MATH 251 – QUIZ 6

Question 1: (5 points)

Calculate the following integral, where D is the triangle with vertices $(2, 0)$, $(0, 2)$, $(2, 4)$

$$\int \int_D 2xy dx dy$$

Question 2: (5 points)

Calculate the following *impossible* integral by reserving the order of integration:

$$\int_0^9 \int_{\sqrt{x}}^3 \left(\frac{1}{y^3 + 1} \right) dy dx$$