

Quiz 5

Math 53, section 213

October 15, 2014

1. Find the volume of the solid that lies under the plane $4x + 6y - 2z + 15 = 0$ and above the rectangle $R = \{(x, y) \mid -1 \leq x \leq 2, -1 \leq y \leq 1\}$.

2. Evaluate the double integral

$$\iint_D 2xy \, dA$$

where D is the triangular region with vertices $(0, 0)$, $(1, 2)$, and $(0, 3)$.