

MATH 251, Section _____
Thursday, Oct. 14, 2010

Quiz 7 (Sections 13.1–13.3).
Dr. M. Vorobets

The quiz is **due Tuesday, Oct. 19 at the beginning of class.**

NAME (print): _____

No credit for unsupported answers will be given. Clearly indicate your final answer

1. [3 pts.] Evaluate the double integral

$$\iint_R x e^{xy} dA$$

if $R = [0, 1] \times [0, 1]$

2. [3 pts.] Sketch the region of integration and change the order of integration for

$$\int_0^1 \int_{y^2-1}^{1-y} f(x, y) dx dy$$

[more problems on back]

3. [4 pts.] Find the volume of the solid bounded by elliptic paraboloid $z = 2x^2 + y^2 + 1$ and the planes $x + 2y = 1$, $x = 0$, $y = 0$, and $z = 0$.