MATH 251 - QUIZ 7

NAME:

I.D.:

Instruction: Circle your answers and show all your work CLEARLY. Solutions with answer only and without supporting procedures will have little credit.

1. Compute the double integral

$$\int_0^{\pi/2} \int_1^e \frac{\sin y}{x} dx dy.$$

2. Compute the double integral of $f(x, y) = 1 - x$ over the triangle R whose vertices are $(0, 0), (1, 1)$ and $(-2, 1)$.

MATH 251 - QUIZ 7

NAME:

I.D.:

Instruction: Circle your answers and show all your work CLEARLY. Solutions with answer only and without supporting procedures will have little credit.

1. Compute the double integral

$$\int_0^1 \int_0^{x^3} e^{y/x} dy dx.$$

2. Compute the double integral of $f(x, y) = xy$ over the first-quadrant quarter circle bounded by $x^2 + y^2 = 1$ and the coordinate axes.