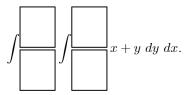
$\begin{array}{c} {\rm MATH~311-CALCULUS~3} \\ {\rm Spring~2006} \\ {\rm QUIZ~8} \end{array}$

NAME_____

1. Evaluate:
$$\int_{0}^{2} \int_{0}^{2y} x + y \ dx \ dy =$$

2. Insert the limits of integration that reverse the order of integration in problem #1:



3. Set up but <u>DO NOT EVALUATE</u> a double integral to compute the area of the region R bounded by the curves $y = \sqrt{x}$ and $y = x^2$.

4. Set up but <u>DO NOT EVALUATE</u> a double integral to compute the volume of the solid bounded by the graphs of x = 0, x = 2, y = x, y = 4, z = 0 and z = xy.