Math 225 : Quiz   **Nov. 22, 1991**
Show your work and circle your final answer.

1. Let R be the region bounded by

$$y = x, \quad xy = 2, \quad xy^3 = 1$$

quiz.911122.1.eps

Rewrite the integral $\int_R x^2 y^2 \, dA$ as an iterated integral in the variables $u = xy$ and $v = x/y$ (do not evaluate).

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2. Let $(x, y) = x^2 y \subset +y^3 z \supset +z^4 x$.
Compute $\div$.