

Math 224

Quiz 15

Name: _____

March 26, 2004

Show all work for credit.

1. Calculate the following integral:

$$\iint_D e^{x/y} dA, D = \{(x, y) \mid 1 \leq y \leq 2, y \leq x \leq y^3\}$$

2. Sketch the region of integration and change the order of integration:

$$\int_0^1 \int_{\arctan x}^{\pi/4} f(x, y) dy dx$$