

Quiz 09/26/2012

Name _____

1) Set up **but do not evaluate** the iterated integrals for $f(x, y) = x^2 e^y$ over the region R :

a) $R = [1, 3] \times [5, 7]$

b) R is the region above the curve $y = x^3$ and below $y = \sqrt{x}$

2) Evaluate the following iterated integrals:

a) $\int_0^2 \int_0^{x^2} xy \, dy \, dx$

b) $\int_0^1 \int_y^{2y} x^2 + y^2 \, dx \, dy$