

MATH 251: Practice 14

June 22, 2015

Name: _____

1. Compute the integral of $f(x, y) = x + y$ over the region in the first quadrant between the graphs of $y = x$ and $y = x^2$.

2. Change the order of integration, then compute the integral

$$\int_0^2 \int_{x^2}^4 x e^{y^2} dy dx$$