

NAME: _____

Math 2551 (L1-L3)
3/2/2016

Quiz 6

1. Consider the double integral:

$$\int_0^1 \int_1^{e^x} dy dx.$$

- Sketch the region of integration.
- Use the appropriate cross-sections to express the double integral above in terms of $dx dy$ instead of $dy dx$.

2. Write the integral $\iint_R dA$ in two ways, one in terms of $dx dy$ and the other in terms of $dy dx$, where R is the region sketched below.

