# MATH 251: Quiz 5 

April 2, 2015

Name: $\qquad$ Sec: $\qquad$

1. Calculate

$$
\iiint_{\mathcal{D}} x+y d V
$$

for the region in the first octant $x \geq 0, y \geq 0, z \geq 0$ between the planes $z=2$ and $z=x+y+1$. You should be looking at the region near the origin.
2. Compute

$$
\iint_{\mathcal{R}} y d A
$$

for the region $\mathcal{R}$ pictured below by changing to polar coordinates.


