MATH 251: Quiz 5 April 2, 2015

Name:		Sec:
1. Calculate		
	$\iiint_{\mathcal{D}} x + y \ dV$	

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

2. Compute

$$\iint_{\mathcal{R}} y \ dA$$

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

