## MATH 251: Practice 15 June 23, 2015

Name:
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1. Find the volume of the region in the first octant bounded by the planes  $x=4,\ y=3,$  and 2x-y+z=10.

2. Find  $\iiint y \ dV$  over the region between the two paraboloids

$$z = 4 - 2x^2 - y^2$$
 and  $z = x^2 + y^2$ 

Hint: Solve for y as a function of x for the overlapping region, then make y your second integral.