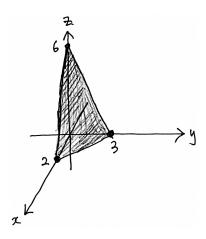
Quiz #10; Wed, 4/6/2016 Math 53 with Prof. Stankova Section 107; MWF10-11 GSI: Christopher Eur

Student Name	:	

Problem. Use triple integral to find the volume of the tetrahedron enclosed by the coordinate planes and the plane 3x + 2y + z = 6.

Solution. The sketch of the tetrahedron is:



Thus, the integration we set up is:

$$\int_0^2 \int_0^{2-(2/3)y} \int_0^{6-3x-2y} dz dy dx = 9$$