Math 335-002 Homework #9B * Spring 2015 * Prof. Victor Matveev

Please show all work in detail to receive full credit. Late homework is not accepted.

- 1. Calculate $\iiint_B y \, dV$, where the volume of integration *B* is bounded in by the planes z=1-x-2y, z=0, y=0 and x=y. Start by sketching this domain of integration.
- 2. Use triple integration to calculate the volume enclosed between the surfaces $z=x+y^2$, z=0, and x=-1. Start by sketching the domain of integration, and make sure to correctly visualize the surface $z=x+y^2$. Hint: the most convenient order of integration is dz dx dy.