Volumes and Mass using Triple Integrals

- 1. Find the volume of the solid bounded by $z = 9 x^2$, z = 0, y = -1, and y = 2.
- 2. Suppose an object is bounded by the planes x = 0, y = 0, z = 0, and x + 2y + 2z = 4. Suppose also that its mass at (x, y, z) is z. Set up an expression for the total mass of the object, as well as the co-ordinates of its centre of mass.