

Show all work. 5 points each.

1. Evaluate the triple integral

$$\int_0^1 \int_0^x \int_0^1 x \, dz \, dy \, dx$$

2. Use $V(E) = \iiint dV$ to **set up** the triple integral needed to find the volume of the tetrahedron bounded by the coordinate planes and $2x + y + z = 4$.

