

Math 201-152 Quiz 5

Name _____ Section ___ Id _____
Serial# _____

Q1) Find the volume of the region in the first octant bounded by the coordinate planes and the planes $x + z = 1$, $y + 2z = 2$

Q2) a) Write the inequalities $z \geq 1$, $x^2 + y^2 + z^2 \leq 4$ in spherical coordinates.

b) Find the volume of the solid above the plane $z = 1$ and inside the sphere $x^2 + y^2 + z^2 = 4$