

Quiz 7

Your Name (please PRINT): _____

Student ID Number: _____

1. Find the volume of the solid under the plane $y = z$, above the plane $z = 0$ and within the cylinder $x^2 + y^2 = 1$.

2. A lamina occupies the region D that is bounded by $y = x^2$ and $y = x + 2$ and the density is $\rho(x, y) = x$. Find the x coordinate of its center of mass.