QUIZ 4   **Time: 10min**

1. Set up the integral for the volume of the region, lying in the quadrant $x \geq 0$, $y \geq 0$, and bounded by the planes $x = 0$, $y = 0$, $z = 2$, and the surface $z = x^2 + y^2$.

The problem is worth 10 points.