Q1. Evaluate $\int_0^1 \int_x^1 e^{x/y} \, dy dx$

Q2: Evaluate $\iint_R y \, dA$ where R is the region in the first quadrant that lies between the circles $x^2 + y^2 = 4$ and $x^2 + y^2 = 2x$.

Q3: $\int_1^4 \int_y^4 \int_0^z \frac{z}{x^2+z^2} \, dx \, dz \, dy$

Q4: Find the volume of the solid bounded by the paraboloids $z = 5 - x^2 - y^2$ and $z = 4x^2 + 4y^2$