

Name and last 4 digits of student ID: _____

Let W be the solid region given by $x \geq 0$, $y \geq 0$, $z \geq 0$, $x^2 + y^2 + z^2 \geq 2$ and $x^2 + y^2 + z^2 \leq 3$. Transform the integral $\iiint_W x + y^2z \, dV$ into spherical coordinates.