

Exercise 5

Evaluate both sides of Eq. A.5-2 for the function $s(x, y, z) = x^2 + y^2 + z^2$. The volume V is the triangular prism lying between the two triangles whose vertices are $(2, 0, 0)$, $(2, 1, 0)$, $(2, 0, 3)$, and $(-2, 0, 0)$, $(-2, 1, 0)$, $(-2, 0, 3)$.