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 \((-2, 0, 0), (-2, 1, 0), (-2, 0, 3)\).