Set up (do not evaluate) the surface integral of \( f = f(x, y, z) \) over the given surface \( S \).

a) (5 points) \( f(x, y, z) = x + y \), and \( S \) is the triangle with the vertices \((1, 0, 0), (0, 2, 0)\) and \((0, 0, 3)\).

b) (5 points) \( f(x, y, z) = x^2 + y^2 \), and \( S \) is the portion of the cone \( z^2 = x^2 + y^2 \) lying between the planes \( z = 1 \) and \( z = 4 \).