Suppose \( R \) is the triangular region in the xy-plane bounded by \( x = 0, x = 1, y = 0, \) and \( y = 2x \).

Let \( M \) be that part of the surface of the graph of \( z = x + y \) that lies above the region \( R \).

Set up and evaluate a double integral which gives the area of \( M \).