

Name \_\_\_\_\_

Sr.# \_\_\_\_\_

Q1 Find the absolute maximum and minimum values of  $f(x, y) = 1 - 4x - 4y + 2x^2 + y^2$  on the triangular region in the first quadrant bounded by the lines  $x = 0$ ,  $y = 2$ ,  $y = 2x$ .