Math 2260 Quiz 4

Name _____

Points will be deducted for untidy or disorganized answers

- 1. Let C denote the portion of the curve $y = \sqrt{x}$ that lies between the lines x = 1 and x = 4.
 - (a) (1 point) Set up, but do not evaluate, <u>two</u> integrals, one in the variable x and one in the variable y, for the length of C.

(b) (4 points) Set up, but do not evaluate, <u>two</u> integrals, one in the variable x and one in the variable y, for the area of the surfaces generated by revolving C about:

i. the x-axis

ii. the *y*-axis

iii. the line x = -2

iv. the line y = 3