

MATH 102-(092)
QUIZ # 3 (Take Home)

NAME:

ID. #:.....

Sec.#: 19 - 34 - 36

Show all your work in a neat and organized manner

Q1. The region in the first quadrant that is bounded above by the curve $y = \frac{1}{\sqrt{x}}$, on the left by the line $x = \frac{1}{4}$, and below by the line $y = 1$ is revolved about the y-axis to generate a solid. Find the volume of the solid by

a. the washer method.

b. the shell method.