

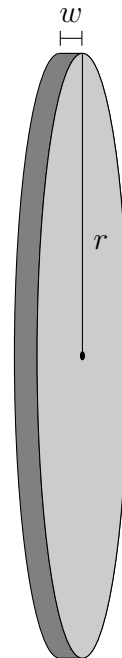
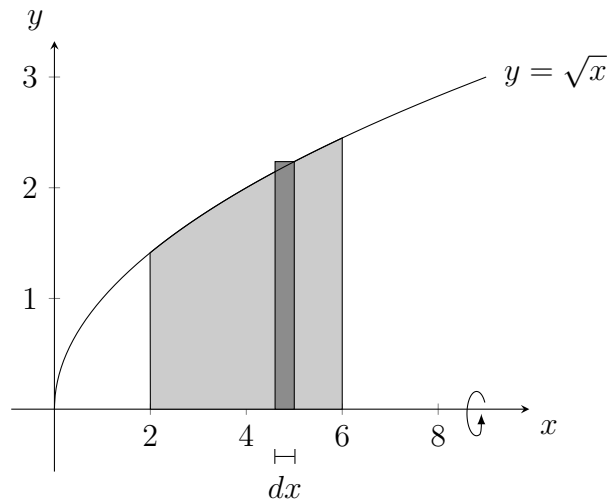
Math 2300-007: Quiz 4a

Name: _____

Score: _____

- (2 points) In a sentence or two, what would you say is the main strategy for calculating the volume of a solid of revolution?

- (3 points) Suppose you are asked to calculate the volume of the solid formed by rotating around the x -axis the region bounded by the curves $y = \sqrt{x}$, $y = 0$, $x = 2$, and $x = 6$. Cross-sections are disks like the one shown to the right. Fill the blanks with expressions involving x .



$r =$ _____

$w =$ _____

Volume of Slice = _____

Total Volume = \int