

MATH 102

QUIZ 2A

Name:

ST ID

section:

1. Find the volume of the solid obtained by rotating the region bounded by the graphs of $y = 1 - x^2$ and $y = -(1 + x)$ about the line $x = 3$.

2. Find the area of the region bounded by the graphs of the equations $x = 2y^2$ and $y^2 = \frac{x}{3} + 3$?

3. Find the volume of the solid generated by rotating the region bounded by the curves $y = x$ and $y = \sqrt{x}$ about the line $x = 2$?

4. Find the volume of the solid generated by rotating the region $y = \ln x$, $y = 0$ and $x = e$ about the y-axis?