Term 151

Math 102 (7)

Quiz#2 (Area Between Curves + Ch6)

Family Name:

S.r#

Q1. **Set up** an integral for the area of the region enclosed by $x = y^2 - y$, and $x = 1 - y^2$.

Q2. **Set up** an integral for the volume generated by rotating the region enclosed by $y = -\sqrt{x}$, y = -x about the *y-axis*

King Fahd University for Petroleum and Minerals Department of Mathematics & Statistics

Term 151 Math 102 (8) S.r#

Family Name:

Quiz#2 (Area Between Curves + Ch6)

Q1. **Set up** an integral for the volume of the described solid.

The base is bounded by $y = e^x$, y = 1, and x = 1. Cross sections perpendicular to the y - axis are squares.

Q2. **Set up** an integral for the arc length of $y = -\sqrt[3]{x}$, $1 \le y \le 2$.