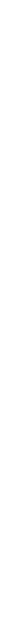

Q1. **Set up** an integral for the area of the region enclosed by $x = y^2 - y$, and $x = 1 - y^2$.

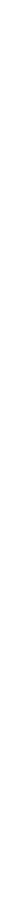


Q2. **Set up** an integral for the volume generated by rotating the region enclosed by $y = -\sqrt{x}$, $y = -x$ about the y -axis



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 $y = -\sqrt[3]{x}$, $1 \leq y \leq 2$.

