MAT 137 (Calculus II) Prof. Swift
In-class worksheet: Computing Volume of a Solid of Revolution

Let $\mathcal{R}$ be the region in the x-y plane between the curves $y = x^2$ and $y = 1$.

1. Find the volume of the solid obtained when $\mathcal{R}$ is rotated about the x-axis.

2. Find the volume of the solid obtained when $\mathcal{R}$ is rotated about the line $y = 1$.