

Class 16: Volumes of Revolution

Calculus II

College of the Atlantic. Feb 10, 2025

1. The area between the functions $y = \sqrt{x}$ and $y = x$ is rotated about the x-axis. What is the volume of the resulting shape?
2. The area between the functions $y = \sqrt{x}$ and $y = x$ is rotated about the y-axis. What is the volume of the resulting shape?
3. Find the volume of the solid obtained by rotating the region bounded by $y = x^2$ and $x = 2$ around the x-axis.
4. Find the volume of the solid obtained by rotating the region bounded by $y = x^2$ and $x = 2$ around the y-axis.