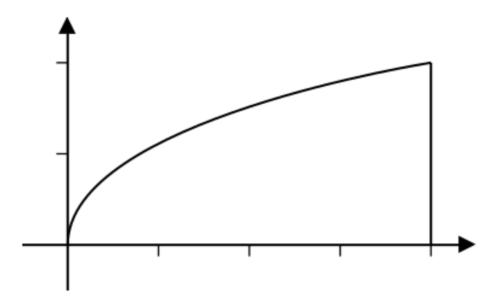
Mathematics 1110H - Calculus I: Limits, Derivatives, and Integrals

Trent University, Summer 2025 (S62)

Quiz #10 - A Solid of Revolution

Due on Thursday, 24 July.*

Consider the region between $y = \sqrt{x}$ and y = 0, where $0 \le x \le 4$.



- 1. Sketch the solid obtained by revolving the given region about the y-axis. [1]
- 2. Find the volume of this solid. [4]

Little Jack Horner Sat in the corner Trying to work out π . He said 'It's minus the logarithm Of minus one to the i.'

A mathematics nursery rhyme from Seven years of MANIFOLD 1968-1980.

^{*} You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If submission via Blackboard fails, please submit your work to your instructor by email or on paper. You may work together and look things up, so long as you write up your submission by yourself and give due credit to your collaborators and any sources you actually used.