Mathematics 1110H – Calculus I: Limits, Derivatives, and Integrals
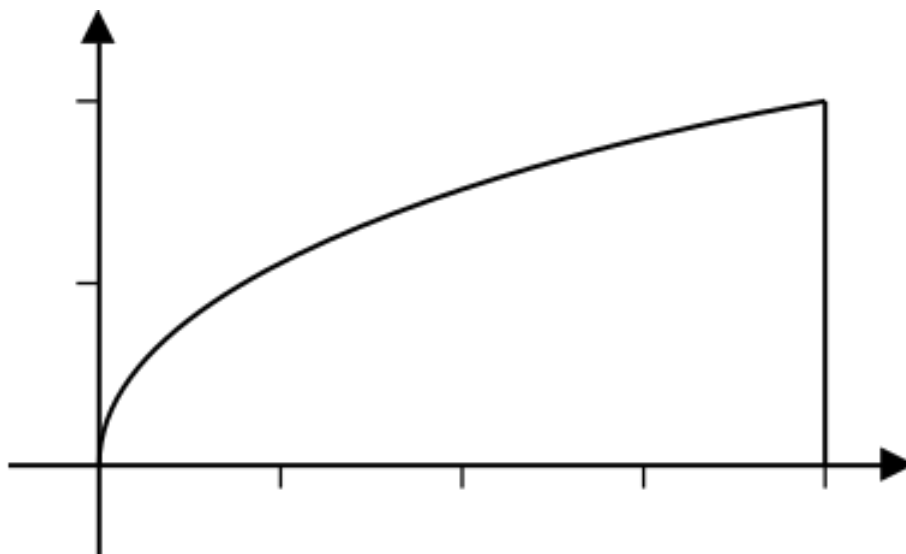Trent University, Summer 2025 (S62)
Quiz #10 – A Solid of Revolution
Due on Thursday, 24 July.*

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.