

Calculus is More Fun Than Humans Should Be Allowed To Have

1. Shape the playdough into an interesting shape
2. Cut that figure into sections each 1 cm wide (one square on the grid)
3. Trace each section on the graph paper and approximate the area
4. Use this to approximate the volume of each section
5. Estimate the total volume of your playdough

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Reading Questions

1. Let R be the rectangle formed by the x -axis, the y -axis, and the lines $y = 1$ and $x = 3$. What is the shape of the solid formed when R is rotated about the x -axis?
2. Let T be the triangle formed by the lines $y = x$, $x = 1$ and the x -axis. What is the shape of the solid formed when T is rotated about the x -axis?

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