

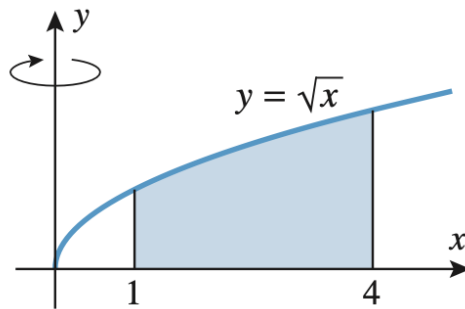
# Volumes by Shells Worksheet

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## 1 Exercises

- I. Find the volume of the solid of revolution formed by taking the plane region bounded by  $y = \sqrt{x}$ ,  $x = 1$ ,  $x = 4$ , and the  $x$ -axis, and revolving that region around the  $y$ -axis.



- II. Find the volume of the solid of revolution formed by taking the plane region bounded by  $y = \sqrt{x+2}$ ,  $y = x$ , and the  $x$ -axis, and revolving that region around the  $x$ -axis.