

6.4: Volume by Shells

Learning Objectives. Upon successful completion of Section 6.4, you will be able to...

- Answer conceptual questions involving the Shell Method.
- Use the shell method to find the volume of the solid of revolution about the y -axis.
- Use the shell method to find the volume of the solid of revolution about the x -axis.
- Use the shell method to find the volume of the solid of revolution about other horizontal and vertical lines (other than the x -axis and y -axis).
- Use both the shell method and washer method to find the volume of the solid of revolution about an indicated axis or line.
- Find the volume of a solid of revolution using any method.
- Solve applications involving the shell method.

Title