

6.3: Volume by Slicing

Learning Objectives. Upon successful completion of Section 6.3, you will be able to...

- Answer conceptual questions involving the general slicing, disk, and washer methods.
- Use the general slicing method to find volumes of solids.
- Use the disk and washer methods to find the volume of solids of revolution about the x -axis.
- Use the disk and washer methods to find the volume of solids of revolution about the y -axis.
- Use the disk and washer methods to find the volume of solids of revolution about horizontal lines ($y = a$) other than the x -axis and vertical lines ($x = b$) other than the y -axis.
- Describe the solid whose volume is given by an integral.
- Solve applications involving the general slicing, disk, and washer methods.

Title