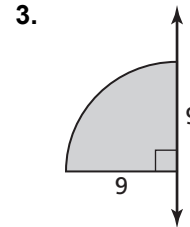
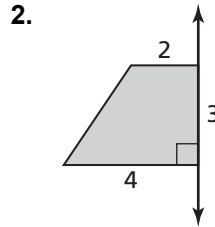
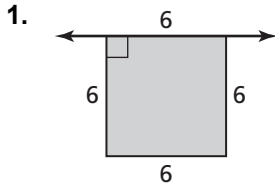
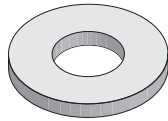


1.4 Practice B

In Exercises 1–3, sketch the solid produced by rotating the figure around the given axis. Then identify and describe the solid.



4. Sketch a two-dimensional shape and an axis of revolution that forms the object shown.



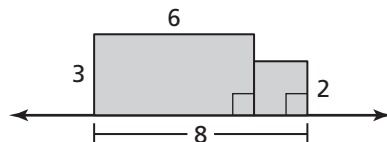
In Exercises 5–7, sketch and describe the solid that is produced when the region enclosed by the given equations is rotated around the given axis. Then find the volume of the solid.

5. $x = 0$, $y = 0$, $y = 2x + 4$; x -axis

6. $x = 0$, $y = 0$, $y = -\frac{1}{3}x + 2$; y -axis

7. $x = 5$, $y = 0$, $y = x$; x -axis

8. Sketch the composite solid produced by rotating the composite figure around the given axis. Then describe the composite solid.



9. Your friend says when you rotate the figure shown around either the x -axis or the y -axis, the resulting solid is the same size and shape. Is your friend correct?

