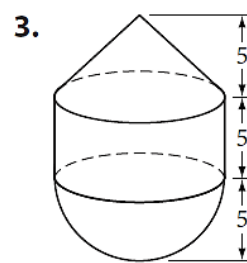
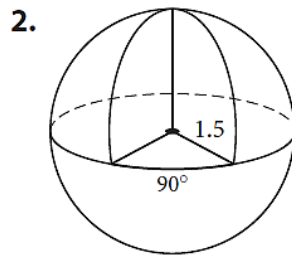
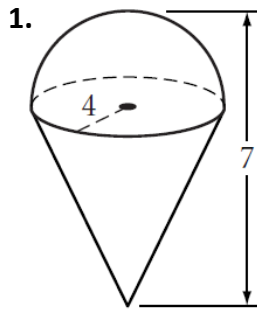
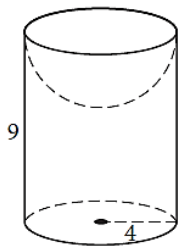


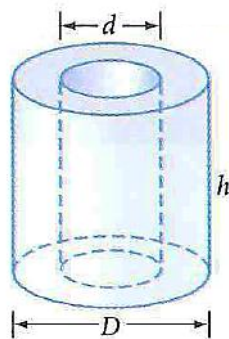
In Problems 1-8, find the volume and surface area of each solid.



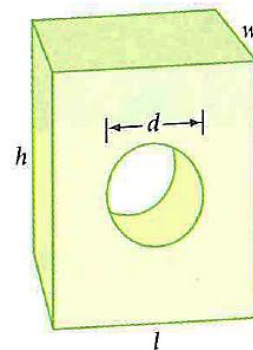
4. Cylinder with hemisphere taken out of the top



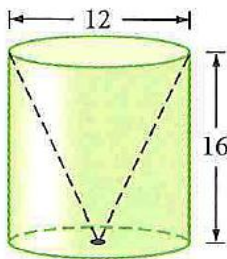
5. $D = 8, d = 4, h = 9$



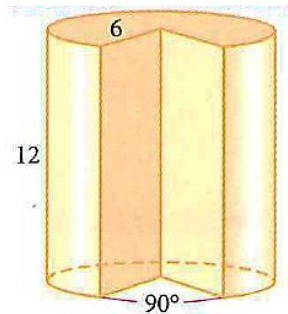
6. $l = 8, w = 4, h = 10, d = 4$



7. Cylinder with cone removed



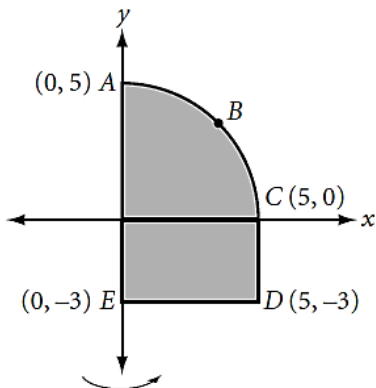
8. Right cylinder with a 90° slice removed



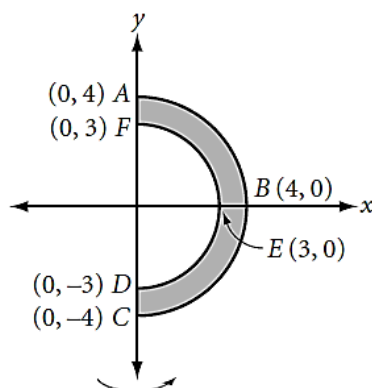
Challenge Problems:

In Exercises 9 and 10, find the volume of the solid generated by spinning each figure about the y -axis.

9. $m\widehat{ABC} = 90^\circ$

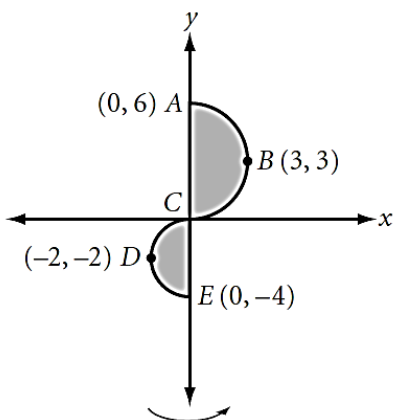


10. \widehat{ABC} and \widehat{DEF} are semicircles.



In Exercises 9 and 10, find the surface area of the solid generated by spinning each figure about the y -axis.

9. \widehat{ABC} and \widehat{CDE} are semicircles.



10. $m\widehat{ABC} = 90^\circ$

