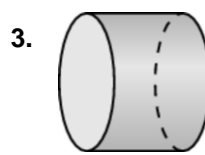
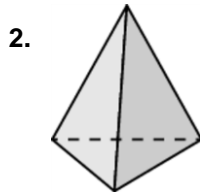
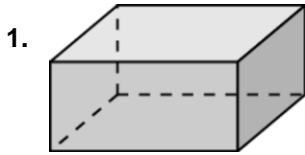
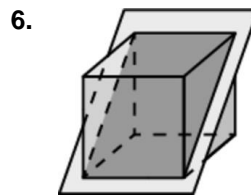
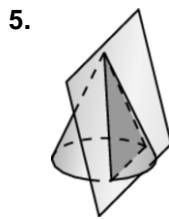
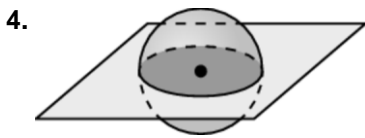


# 11.4 Practice WS

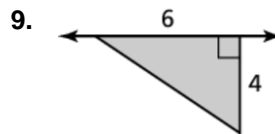
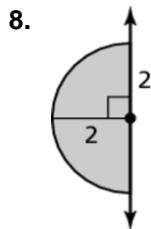
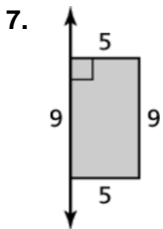
In Exercises 1–3, tell whether the solid is a polyhedron. If it is, name the polyhedron.



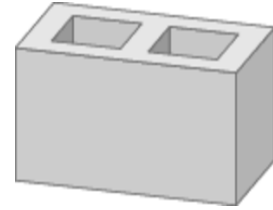
In Exercises 4–6, describe the cross section formed by the intersection of the plane and the solid.



In Exercises 7–9, sketch the solid produced by rotating the figure around the given axis. Then identify and describe the solid.



10. Is the block shown a polyhedron? Explain your reasoning.



11. Sketch a cube. Is it possible for a cross section of a cube to be a square? Explain your reasoning. If so, describe or sketch two different ways in which the plane could intersect the solid.
12. Consider the rectangular prism in Exercise 1. The length of the prism is 4 inches, the width is 2 inches, and the height is 2 inches.
- What is the perimeter of the cross section?
  - What is the area of the cross section?