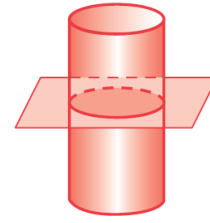


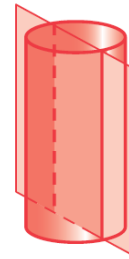
Lesson 4.7 – Cross Sections

NOTES

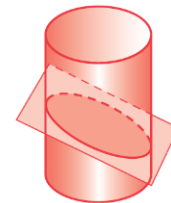
1. Suppose a plane intersects a cylinder parallel to its bases. What is the shape of the cross section?



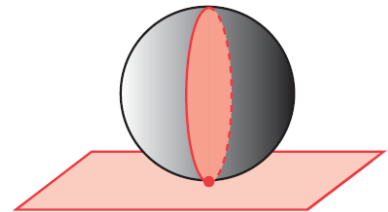
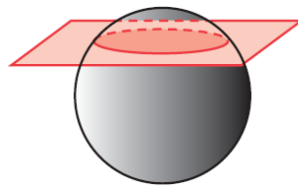
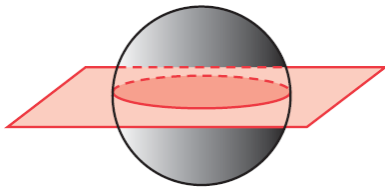
2. Suppose a plane intersects a cylinder perpendicular to its bases so that the plane passes through the center of the bases. What is the shape of the cross section?



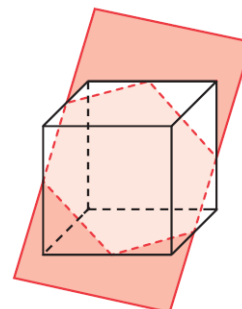
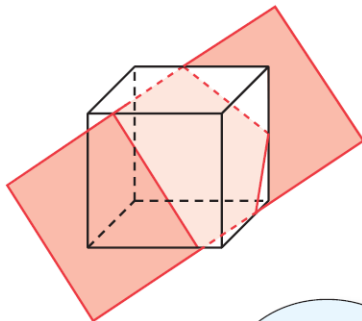
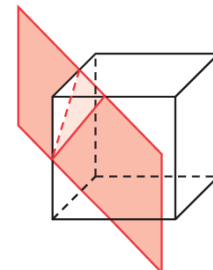
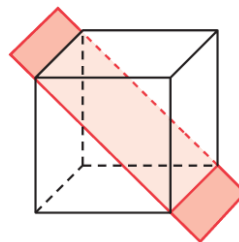
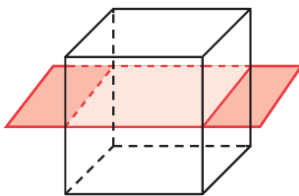
3. Suppose a plane intersects a cylinder not parallel to its bases. What is the shape of the cross section?



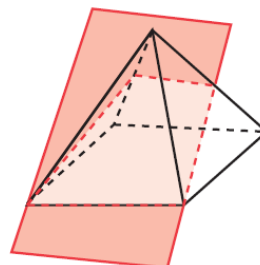
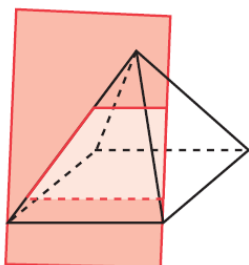
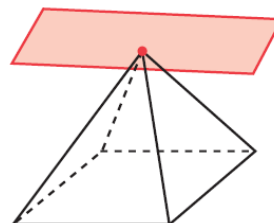
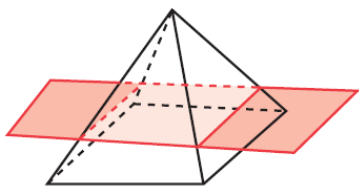
4. Consider a sphere. Describe the three different cross sections formed when a plane intersects a sphere.



5. Consider a cube. Describe the five different cross sections formed when a plane intersects a cube.



6. Consider a square pyramid. Describe the four different cross sections formed when a plane intersects a square pyramid.



7. Consider a cone. Describe the four different cross sections formed when a plane intersects a cone.

