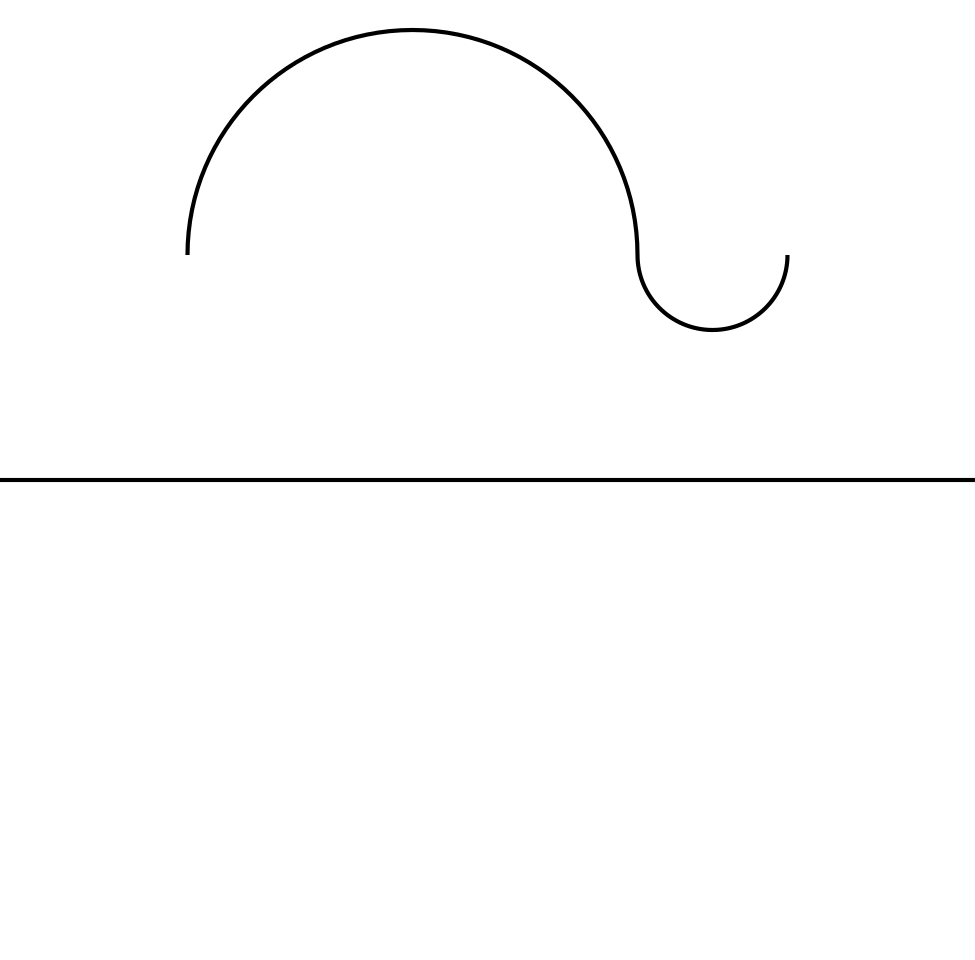
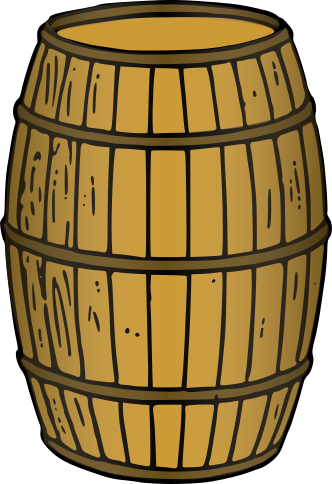
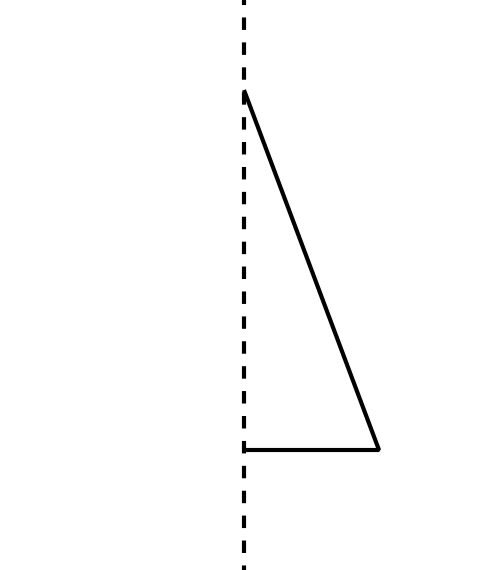
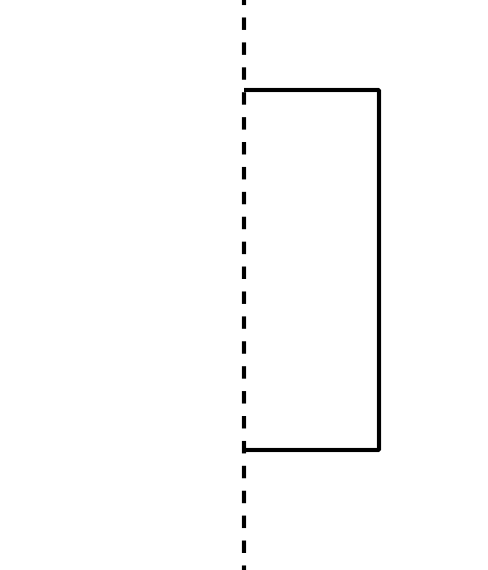
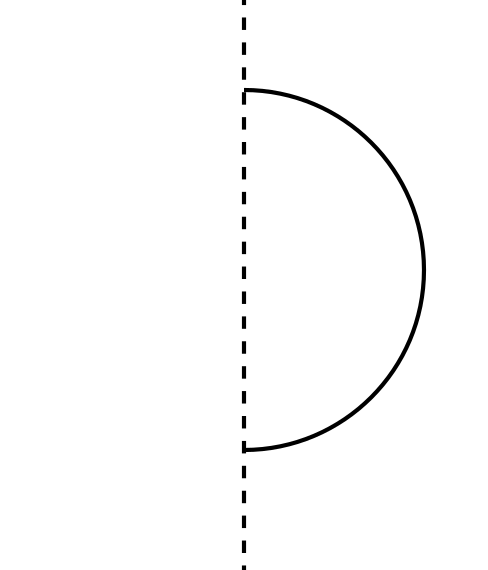
### Lesson 1 Practice Problems

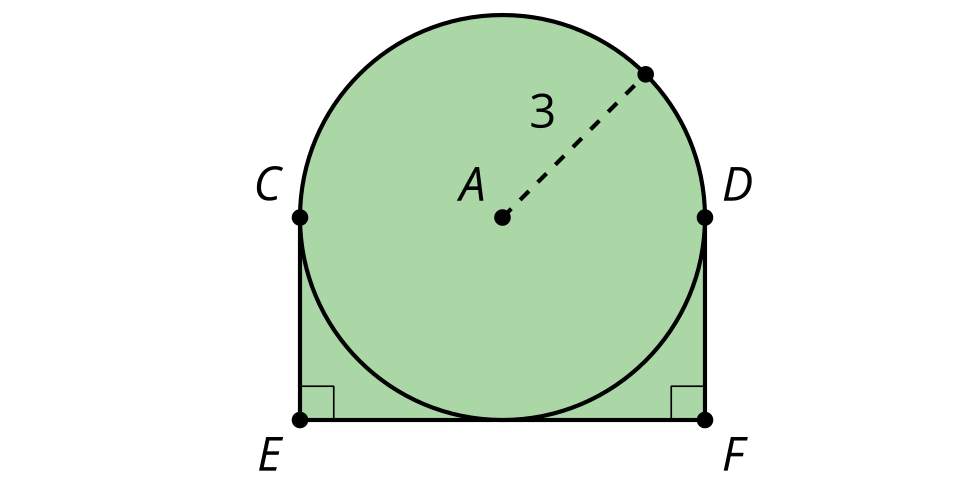
1. Sketch the solid of rotation formed by rotating the given two-dimensional figure using the horizontal line shown as an axis of rotation.

* 

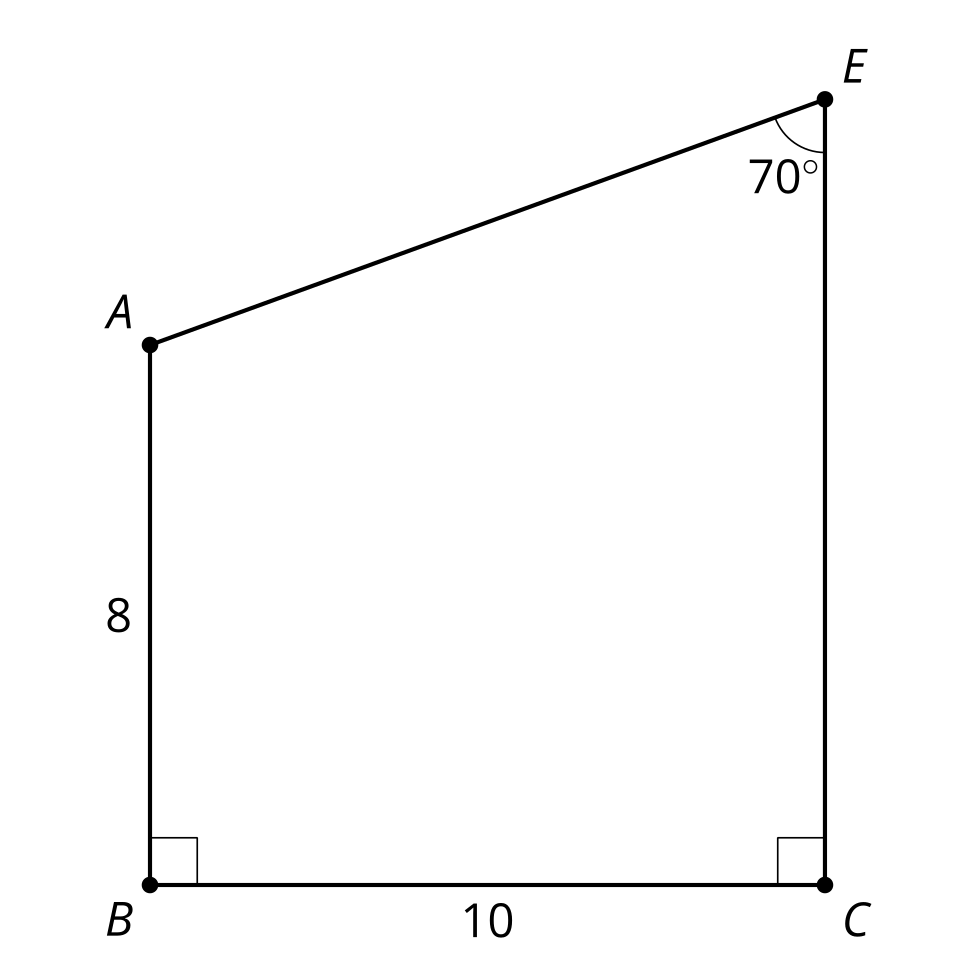
1. Draw a two-dimensional figure that could be rotated using a vertical axis of rotation to give the barrel shown.

* 

1. Match the two-dimensional figure and axis of rotation with the solid of rotation that can be formed by rotating the figure using that axis.
   1. 
   2. 
   3. 
   4. a cylinder
   5. a sphere
   6. a cone
2. Find the area of the shaded region.

* 
* (From Unit 4, Lesson 11.)

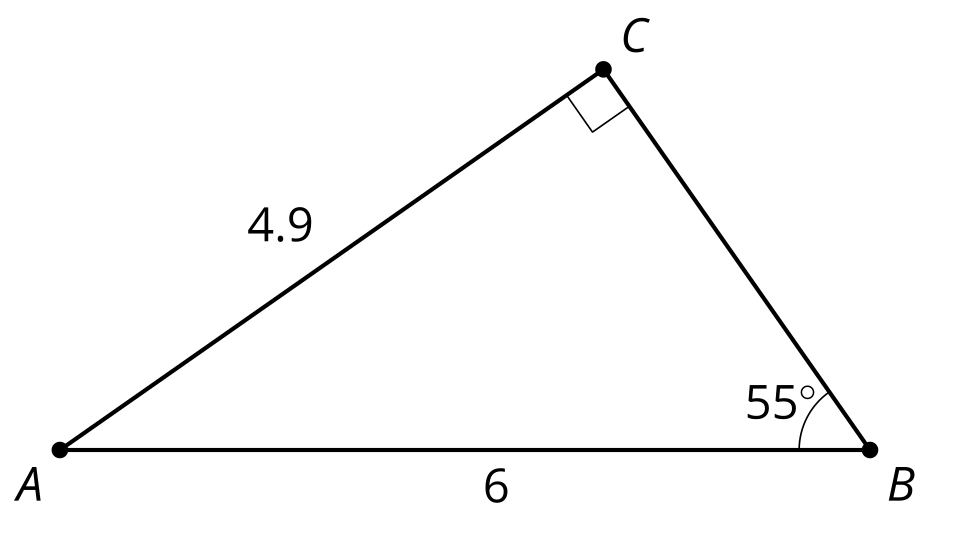
1. *Technology required.*Find the area of the figure.

* 
* (From Unit 4, Lesson 11.)

1. *Technology required.*This stop sign is a regular octagon. It has side lengths of 12 inches. What is the area? What is the perimeter?

* 
* (From Unit 4, Lesson 10.)

1. Right triangle is shown.

* Select **all** expressions which are equal to the length of side .
* 
* (From Unit 4, Lesson 6.)



© CC BY 2019 by Illustrative Mathematics®