## Geometry

## 12.7 Solids of Revolution (12.7)

## **Solid of Revolution**

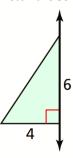
- \_\_\_\_\_-dimensional figure form by \_\_\_\_\_\_ a \_\_\_\_ dimensional shape around an \_\_\_\_\_\_
- The axis is the axis of \_\_\_\_\_

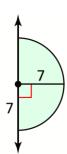




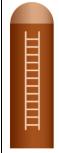


Sketch the solid produced by rotating the figure around the axis.

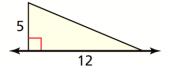




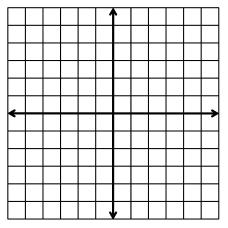
Sketch a two-dimensional shape and an axis of revolution that can form the grain silo shown.



Sketch and describe the solid produced by rotating the figure around the given axis. Then find its surface area.



Sketch and describe the solid that is produced when the region enclosed by x = 0, y = 0, and y = x + 2 is rotated around the x-axis. Then find the volume of the solid.



Assignment: 665 #2, 4, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 23, 24, 26, 33, 35, 36, 37, 38 = 20 total