

Geometry

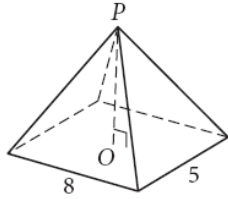
Unit Three: Mixed Volume Practice (HW11)

Names: \_\_\_\_\_

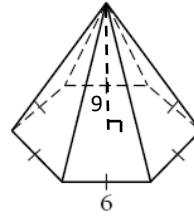
Date: \_\_\_\_\_ Period: \_\_\_\_\_

Find the volume of the solids below. **Please leave all your answers in exact, simplified form.** Leave  $\pi$  in your answers.

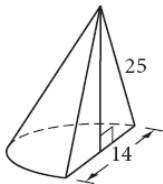
1. Rectangular pyramid;  $OP = 6$



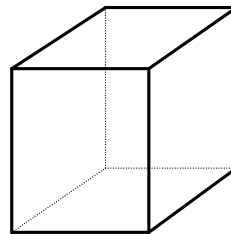
2. Right hexagonal pyramid



3. Half of a right cone



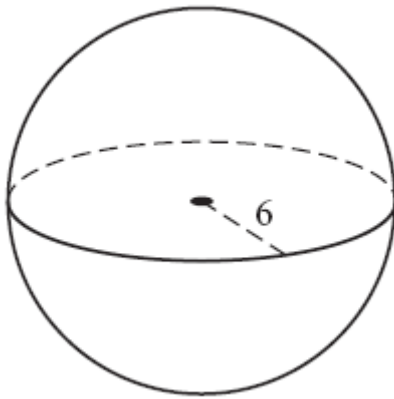
4. Find the volume of a cube if the area of one side is  $36 \text{ cm}^2$ .



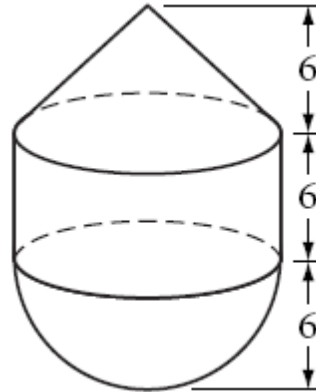
5. Find the height of a cylinder if the volume is  $300\pi$  and the height is 3 times the radius.

Find the requested measurements of each solid below. Leave your answers in exact, simplified form in terms of  $\pi$  unless otherwise directed.

6. Find the volume.



7. Find the volume.



8. The area of the base of a hemisphere is  $225\pi \text{ in}^2$ . What is its volume?