13 - 3 Volumes of Spheres

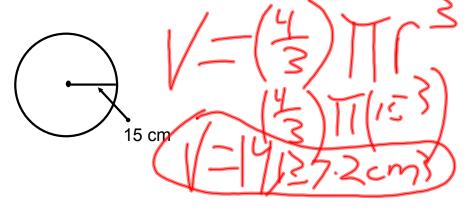
Volume of Spheres:

$$V = \left(\frac{4}{3}\right) \pi r^3$$

r = radius

1. Find the volume of each sphere to the nearest tenth.

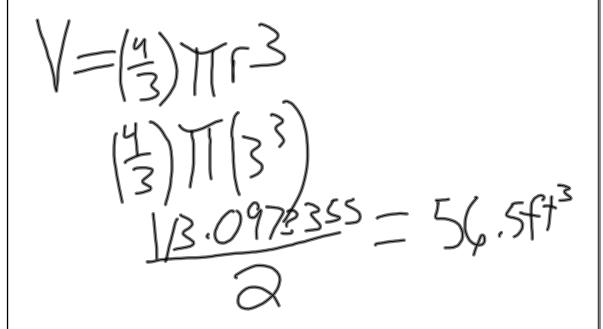
a.



b.
$$V = \frac{4}{3}\pi r^3$$

 $V = \frac{4}{3}\pi (3.97687)$
 $V = \frac{2}{3}\pi (3.97687)$

2. Find the volume of a hemisphere with a diameter of 6 feet.



3. Compare the volumes of the sphere and cylinder with the same radius and height as the radius of the sphere.

