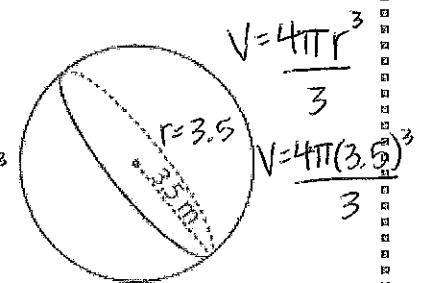
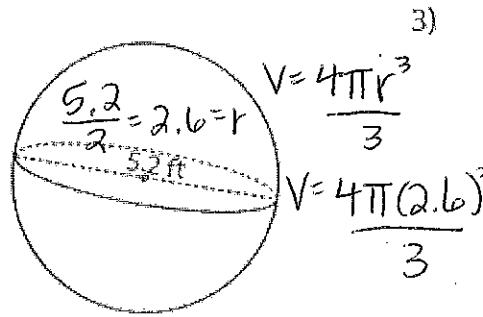
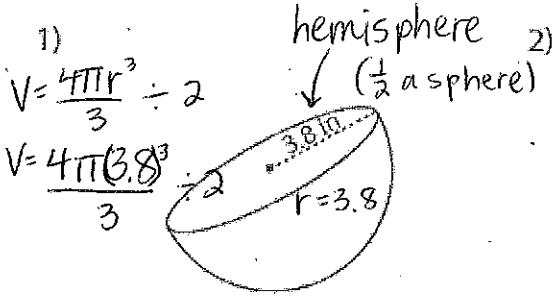


\*\* It is important to note that just like estimating non perfect square roots, sometimes we can estimate the volume by using an estimated value (3.14) for  $\pi$ .

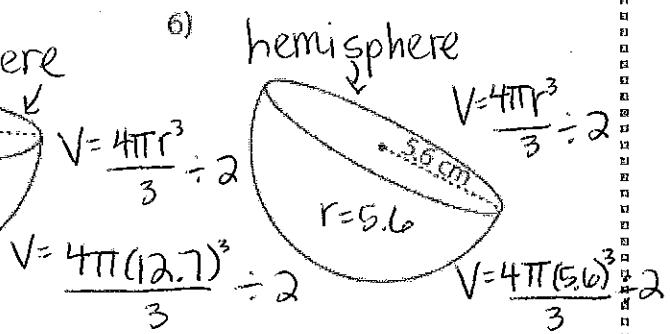
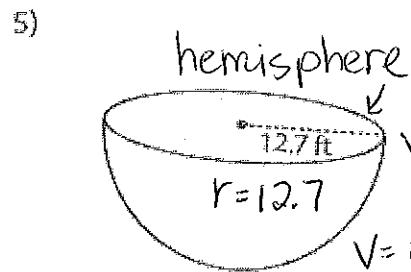
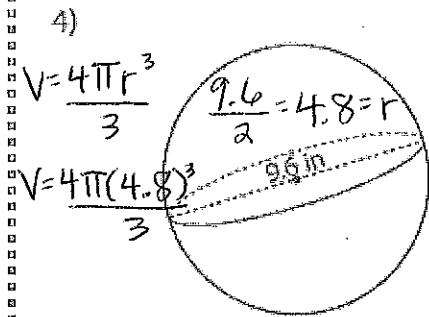
Practice: Find the volume of the figures below. For even numbers, use 3.14 for pi to estimate the volume. Hint: Half a sphere is called a hemisphere. What formula would you use to find the volume of a hemisphere?



$$\text{Volume} = 114.87 \text{ in}^3$$

$$\text{Volume} = 73.58 \text{ ft}^3$$

$$\text{Volume} = 179.5 \text{ m}^3$$



$$\text{Volume} = 463.01 \text{ in}^3$$

$$\text{Volume} = 4287.95 \text{ ft}^3$$

$$\text{Volume} = 367.62 \text{ cm}^3$$

In your own words, describe the relationships between the volume of cylinders, cones, and spheres.

All three figures have a circle as their base. One cylinder is equal in volume to 3 cones. One sphere is equal in volume to 2 cones.