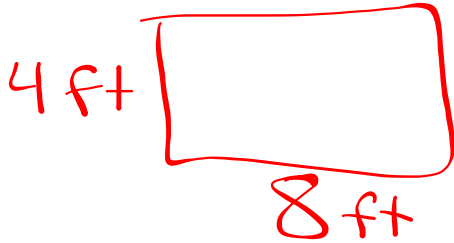


Warm-up 2/9/17

1. What is larger, the volume of the Earth or the surface area?



Pg. 816

Pg. 817-820

$$Bh - \frac{1}{3} Bh$$

$$(\pi r^2)(r) - \frac{1}{3} (\pi r^2)(r)$$

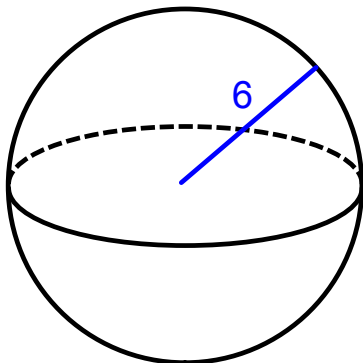
$$\pi r^3 - \frac{1}{3} \pi r^3$$

$$2\left(\frac{2}{3} \pi r^3\right)$$

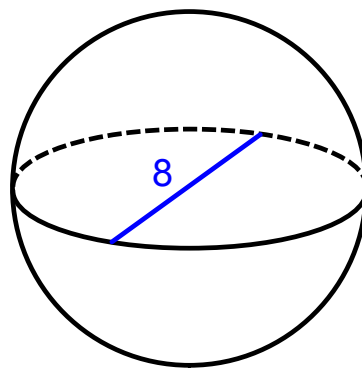
$$V = \frac{4}{3} \pi r^3$$

Volume of a Sphere

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



$$V = \frac{4}{3} \pi (6)^3 \approx 904.8$$

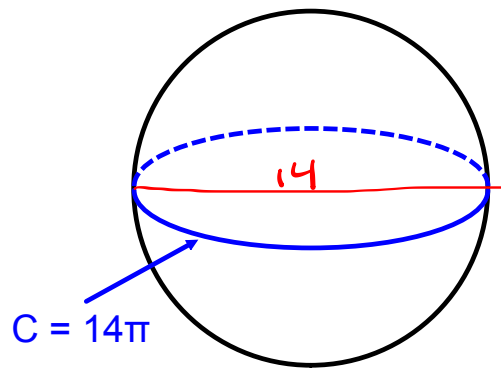


$$V = \frac{4}{3} \pi (4)^3$$

$$V \approx 268.1$$

Volume of a Sphere

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



$$V = \frac{4}{3} \pi (7)^3 \approx 1436.8$$