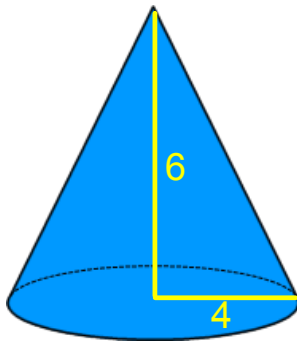
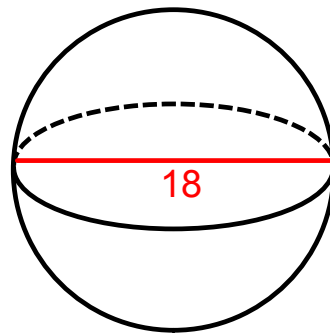


Warm-up 2/20/17

Find the volume of each shape.



$$\begin{aligned}
 V &= \frac{1}{3} B h \\
 &= \frac{1}{3} (\pi (4)^2) (6) \\
 &\approx 100.5
 \end{aligned}$$



$$\begin{aligned}
 V &= \frac{4}{3} \pi r^3 \\
 V &= \frac{4}{3} \pi (9)^3 \\
 &\approx 3053.6
 \end{aligned}$$

Pg. 822-823

1.

2.

$$\begin{array}{ll}
 3. \quad h=11 & h=8.5 \\
 r \approx 1.3528 & r \approx 1.7507
 \end{array}$$

4.

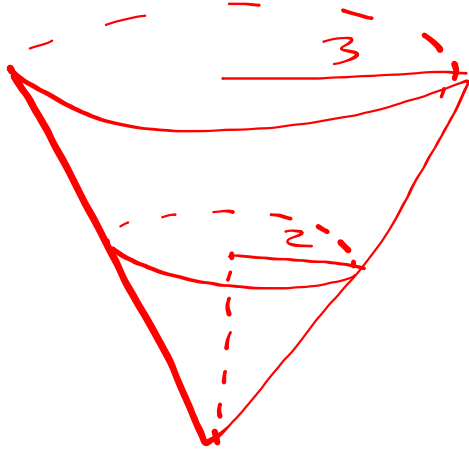
$$\begin{aligned}
 V &= \pi (1.3528)^2 (11) \\
 &\approx 63.2
 \end{aligned}$$

$$\begin{aligned}
 C &= 2\pi r & C &= 2\pi r \\
 8.5 &= 2\pi r & \frac{C}{2\pi} &= r \\
 \frac{8.5}{2\pi} &= r & & \\
 & \approx 1.3528 & &
 \end{aligned}$$

$$\begin{aligned}
 V &= \pi (1.7507)^2 (8.5) \\
 &\approx 81.8
 \end{aligned}$$

Pg. 824-825

1.



1.

