

Volume of Cones

cone - volume is $\frac{1}{3}$ the volume of a cylinder
(takes 3 cones to fill 1 cylinder)

$$V = \frac{\pi r^2 h}{3}$$

$$V = \frac{Bh}{3}$$

$$V = \frac{1}{3} \pi r^2 h$$

$$V = \frac{1}{3} Bh$$

$$\frac{1}{3} \cdot \frac{\pi r^2 h}{1}$$

$$\frac{\pi r^2 h}{3}$$

1)



$$V = \frac{\pi r^2 h}{3}$$

$$V = \frac{3.14 \times 49 \times 10}{3}$$

$$V = \frac{1538.6}{3}$$

$$V = 512.9 \text{ in}^3$$

2)



$$V = \frac{\pi r^2 h}{3}$$

$$V = \frac{3.14 \times 6^3 \times 8}{3}$$

$$V = 75.4 \text{ m}^3$$

* From sheet given to you in class

2) $V = \frac{\pi r^2 h}{3}$

$$V = \frac{3.14 \times 9^3 \times 7}{3}$$

$$V = 65.9 \text{ in}^3$$

4) $V = \frac{\pi r^2 h}{3}$

$$V = \frac{3.14 \times 225 \times 30}{3}$$

$$V = 7065 \text{ ft}^3$$

