

* Notes for Both Lessons

Volume of a Cylinder and Cone

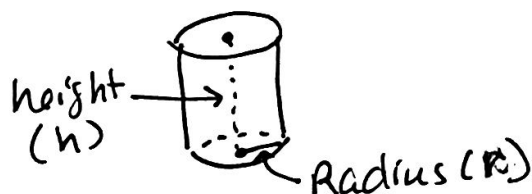
Past lesson:

Prism



$$V = Bh$$

Cylinder - solid with 2 bases that are circles



$$V = Bh$$

$$A_{\text{circle}} = \pi r^2$$

Volume of a Cylinder

$$V = \pi r^2 h$$



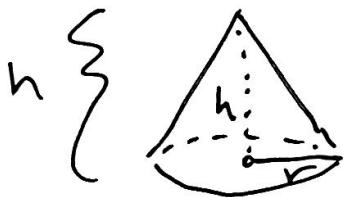
$$V = \pi (1.5)^2 (4)$$

$$V = 3.14 (2.25) (4)$$

$$= \boxed{28.26 \text{ in}^3}$$

- use 3.14 for π .
- use cubed units
- Also make sure to square the radius only.

Cone - solid that has one circular base ($\frac{1}{3}$ of a cylinder)



Volume of a Cone

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