

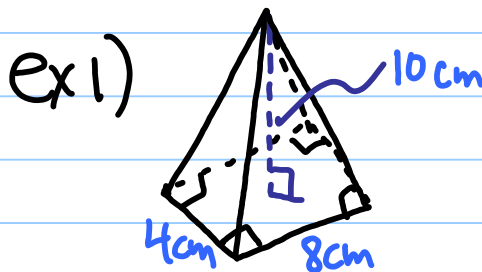
3/30
FRI

12.5 | Volumes of Pyramids & Cones

Theorem 12.11 - Volume of a Pyramid

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

prism
pyramid



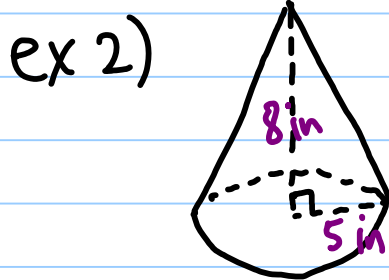
Find the Volume

$$V = \frac{1}{3} Bh \overset{\text{rect}}{\text{l.w}}$$
$$= \frac{1}{3} \text{l.w} \cdot h$$
$$= \frac{1}{3} 4 \cdot 8 \cdot 10 \approx 106.7 \text{ cm}^3$$

Theorem 12.12 - Volume of a Cone

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

cylinder
cone



Find the Volume

$$V = \frac{1}{3} \pi r^2 h$$
$$= \frac{1}{3} \pi (5)^2 8$$
$$\approx 209.4 \text{ in}^3$$