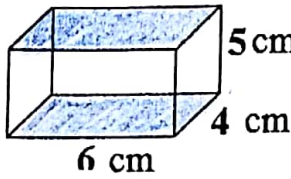


December 17

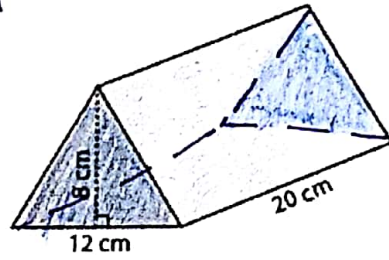
GUIDED NOTES: Volume

EX1 $V_{\text{prism}} = \text{area of base} \cdot \text{height of prism}$ EX2.



$$A = 6 \cdot 4 = 24$$

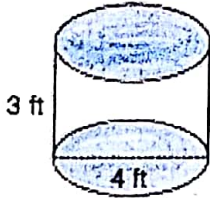
$$V = 24 \cdot 5 = \boxed{120 \text{ cm}^3}$$



$$A = \frac{1}{2} \cdot 12 \cdot 8 = 48$$

$$V = 48 \cdot 20 = \boxed{960 \text{ cm}^3}$$

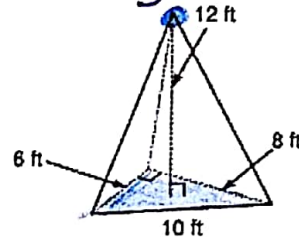
EX3.



$$A = \pi \cdot 2^2 = 12.57$$

$$V = 12.57 \cdot 3 = \boxed{37.70 \text{ ft}^3}$$

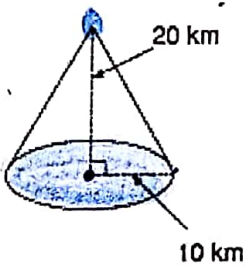
EX4, $V_{\text{pyramid}} = \frac{1}{3} \cdot \text{area of base} \cdot \text{height of pyramid}$



$$A = \frac{1}{2} \cdot 6 \cdot 8 = 24$$

$$V = \frac{1}{3} \cdot 24 \cdot 12 = \boxed{96 \text{ ft}^3}$$

EX5.

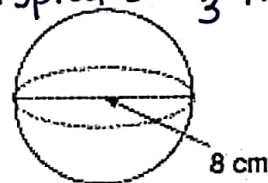


$$A = \pi \cdot 10^2 = 314.16$$

$$V = \frac{1}{3} \cdot 314.16 \cdot 20 = \boxed{2094.40 \text{ km}^3}$$

EX6.

$$V_{\text{sphere}} = \frac{4}{3} \pi r^3$$



$$V = \frac{4}{3} \cdot \pi \cdot 4^3 = \boxed{268.08 \text{ cm}^3}$$