

1/25/2022

M3 Lesson 8/9

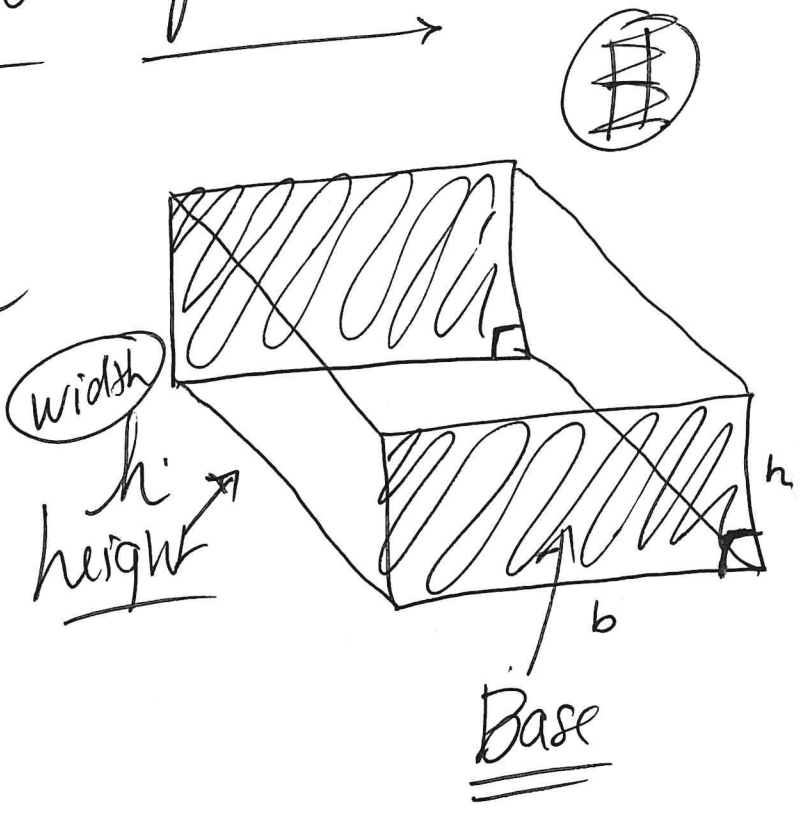
Volume of Prisms : Cylinders

Volume of a Prism :

$$V = B \cdot h$$

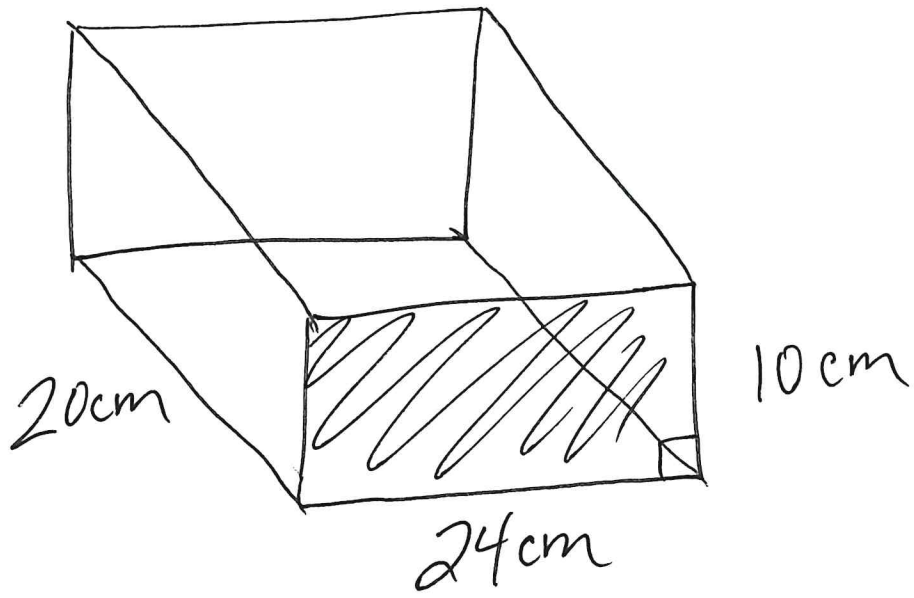
(area of base)

$$V = l \cdot w \cdot h$$



ie 1

Not
to
scale



$$V = (B) \cdot h$$

$$V = (24 \cdot 10) \cdot 20$$

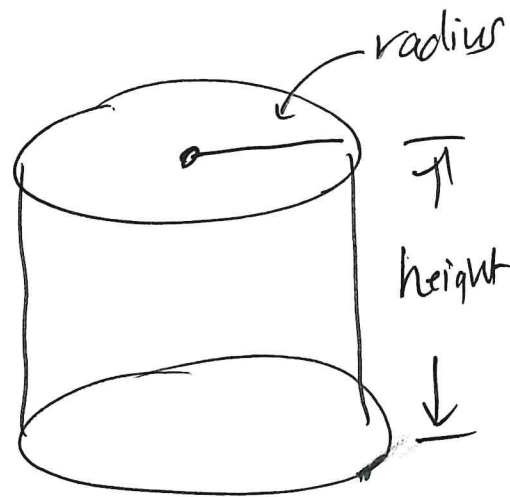
$$V = 240 \cdot 20$$

$$V = 4800 \text{ cm}^3$$

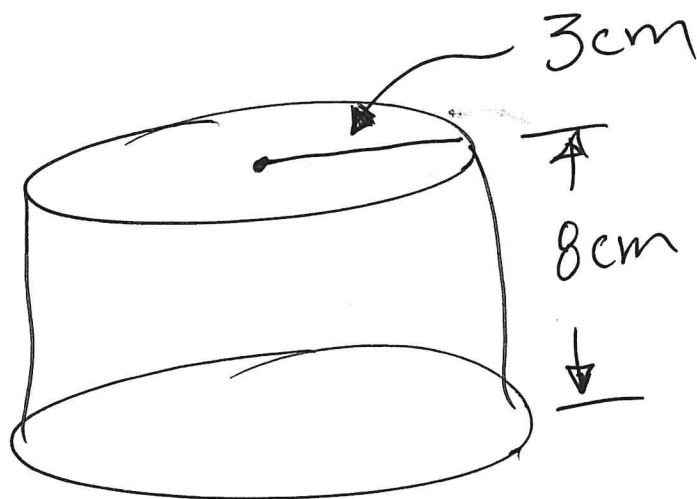
(2)

Cylinder

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



ie 1



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

$$V = \pi (3^2) \cdot 8$$

$$V = 72\pi \text{ cm}^3$$

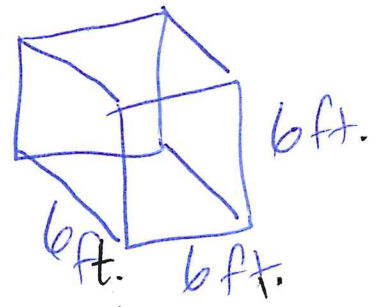
or

$$V \approx 226.19 \text{ cm}^3$$

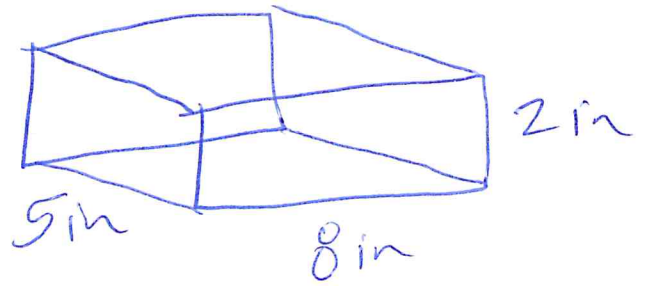
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pgs. 54-55 # 1-4

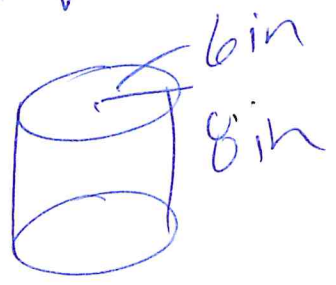
1) Find Volume



2) Find Volume



3) Find Volume



4) Find Volume

