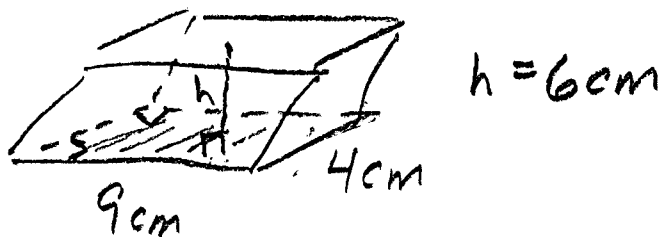


GEOMETRY Weds. 3-20-13 CLASS NOTES

Homework Review: Pg 753 # 2-9

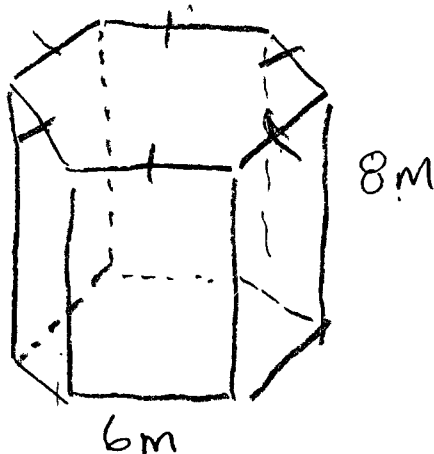
② $V = ?$



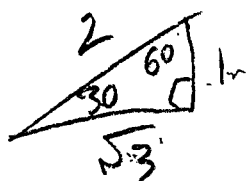
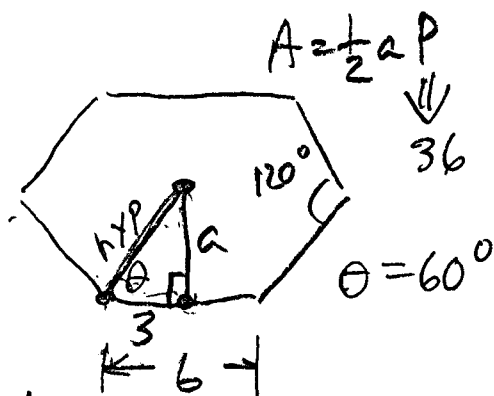
$$V = \underbrace{(9)}_B \cdot \underbrace{(4)}_b \cdot 6 = \boxed{216 \text{ cm}^3}$$

RECTANGULAR PRISM

③



hexagonal prism



$$\tan 60^\circ = \frac{a}{3}$$

$$3(\sqrt{3}) = a \quad \square = 5.196$$

$$(N-2)180 = \text{deg}$$

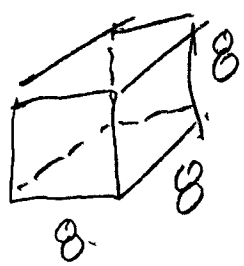
$$(6-2)180 = \text{deg}$$

$$4(180) = \frac{720^\circ}{6} = 120^\circ$$

$$V = \left[\frac{1}{2} (5.196) 36 \right] 8 = 748.22$$

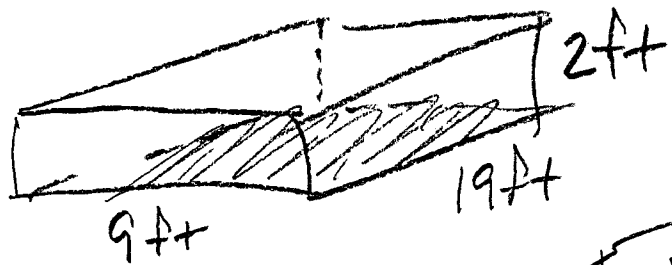
$$\boxed{V = 748.2 \text{ m}^3}$$

④ $V = ?$ cube, side = 8 ft
(edge)



$$V = 8^3 = 512 \text{ ft}^3$$

⑤



$V = ?$
GALLONS?

$$\text{Density} = 4.73 \frac{\text{lb}}{\text{GAL}}$$

$$V = (9 \cdot 19) \cdot 2$$

$W = ?$

$$V = 171 \cdot 2 = 342 \text{ ft}^3$$

$$1 \text{ GAL} \approx 0.134 \text{ ft}^3$$

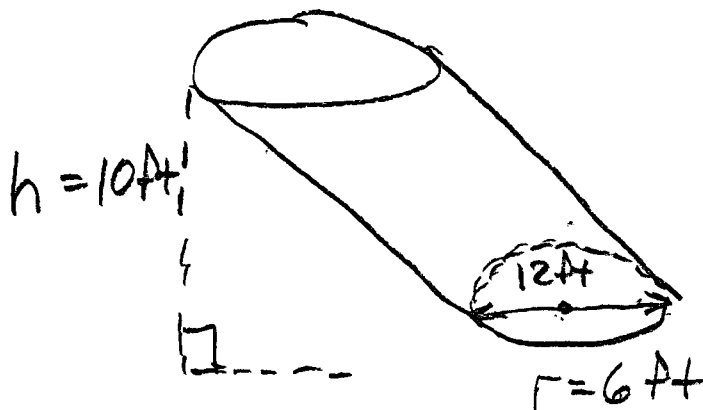
$$\text{E } 342 \text{ ft}^3 \cdot \frac{1 \text{ GAL}}{0.134 \text{ ft}^3} = 2552.2 \text{ GAL}$$

$$V = 2552 \text{ GAL}$$

$$2552 \text{ GAL} \cdot 4.73 \frac{\text{lb}}{\text{GAL}} = 12070.96 \text{ lb}$$

$$W = 12,070 \text{ lb}$$

⑥ $V = ?$ EXACT, nearest tenth



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

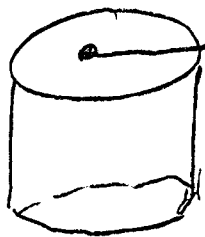
$$= 36\pi (10)$$

$$V = 360\pi \text{ ft}^3$$

$$V \approx 1130.97$$

$$V \approx 1131.0 \text{ ft}^3$$

⑦



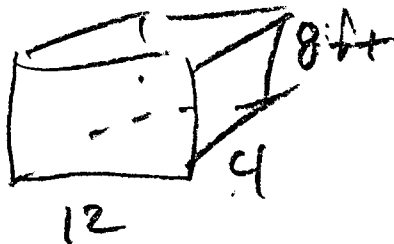
$$r = 3 \text{ m}$$

$$h = 5 \text{ m}$$

$$V = 45\pi \text{ m}^3$$

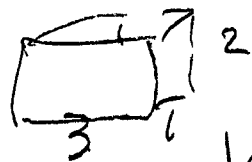
$$V \approx 141.4 \text{ m}^3$$

⑧



$$384 \text{ ft}^3$$

$$6 \times \frac{1}{4}$$

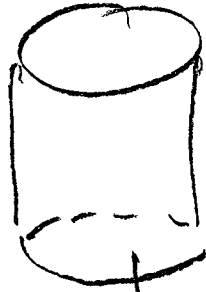


$$V = 6 \text{ ft}^3$$

$$\frac{384}{6} = 64$$

$$\left. \begin{array}{l} V = \\ \text{time } \frac{1}{64} \end{array} \right\}$$

⑧ $V = ?$ EXACT, tenth



$$B = 25\pi \text{ cm}^2$$

$$= \pi r^2$$

$$\therefore r = 5$$

3cm more
→ h or r

$$\therefore h = 8 \text{ cm}$$

$$V = (25\pi)8 = 200\pi \text{ cm}^3$$

$$V \approx 628.318$$

$$V \approx 628.3 \text{ cm}^3$$