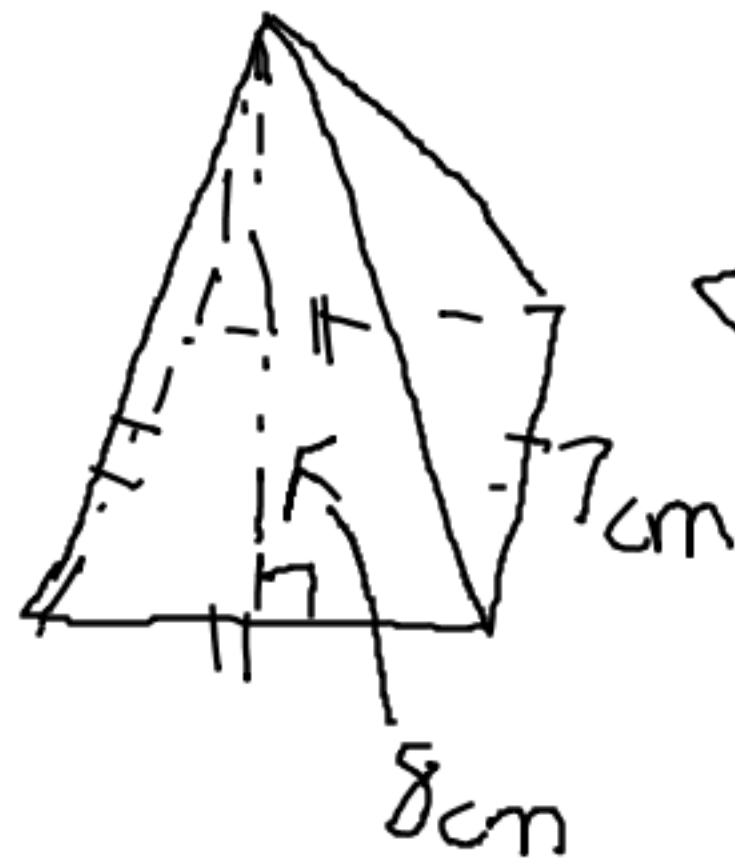


Surface Area and Volume of a Pyramid and a Sphere

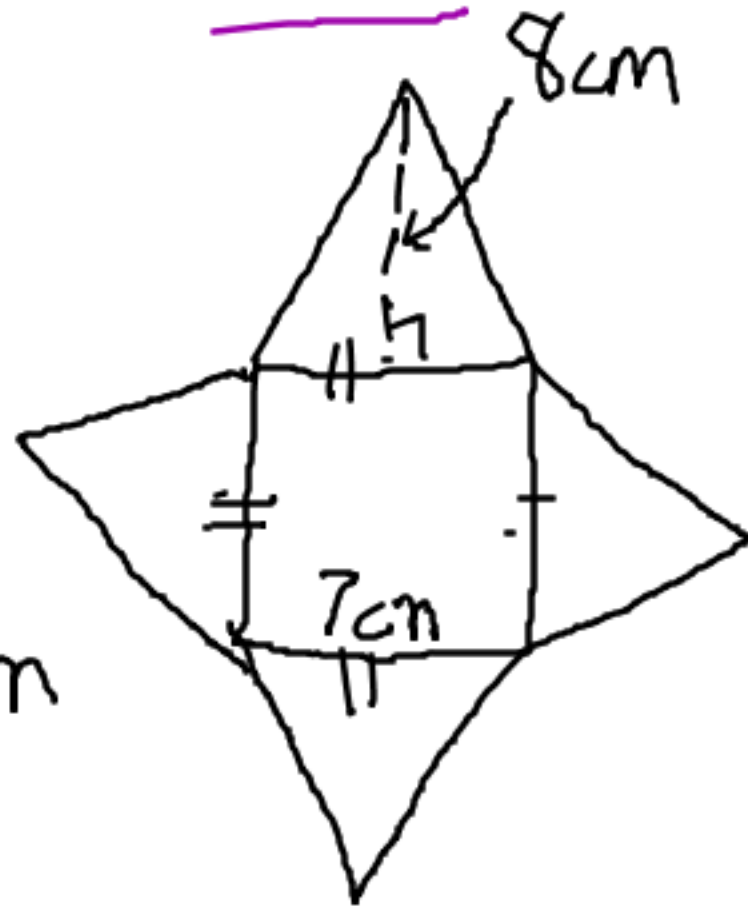
Mar. 29

pg. 492

①



Net



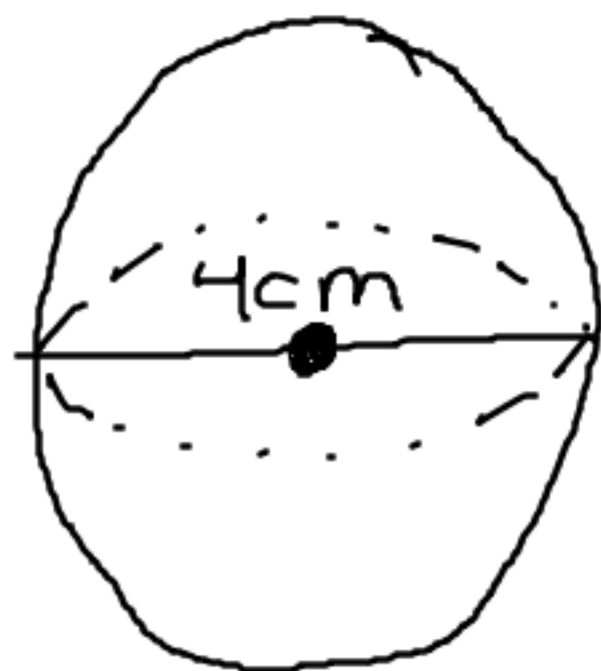
$$SA = lw + 2\left(\frac{bh}{2}\right) \text{ Formula}$$

$$SA = (7)(7) + 2(7)(8)$$

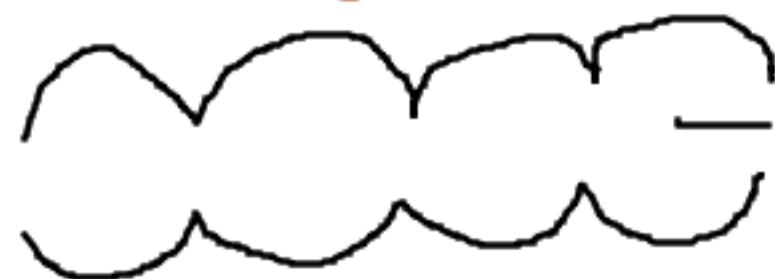
$$SA = 49 + 112$$

$$SA = 161 \text{ cm}^2$$

③



Net



$r: 2\text{cm}$

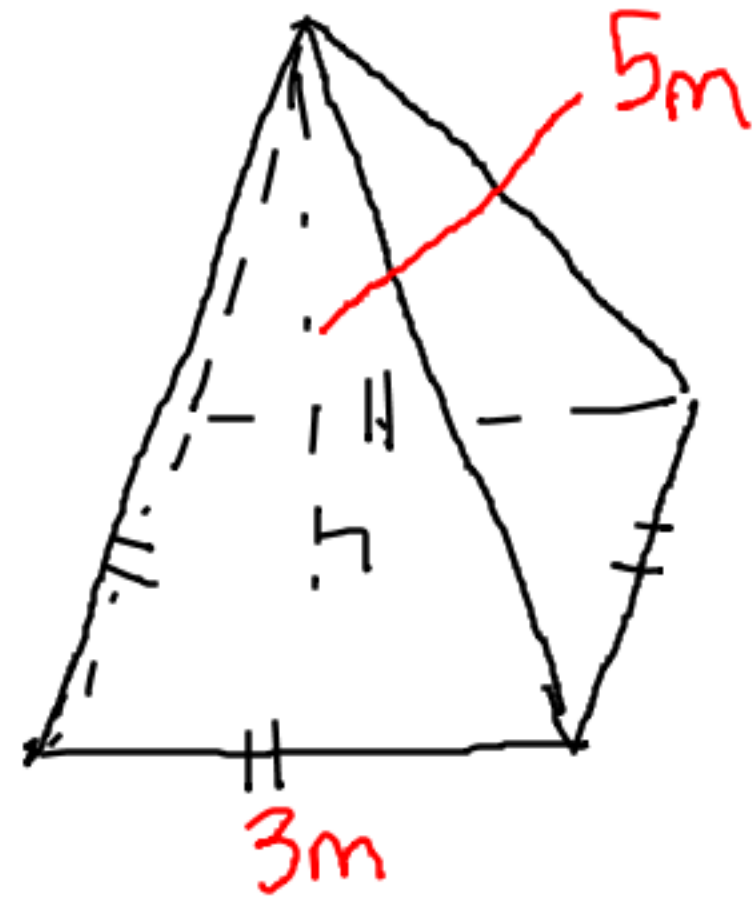
$$SA = 4\pi r^2$$

$$SA = (4)(\pi)(2)^2$$

$$SA = (4)(\pi)(4)$$

$$SA = 50.24\text{cm}^2$$

6)



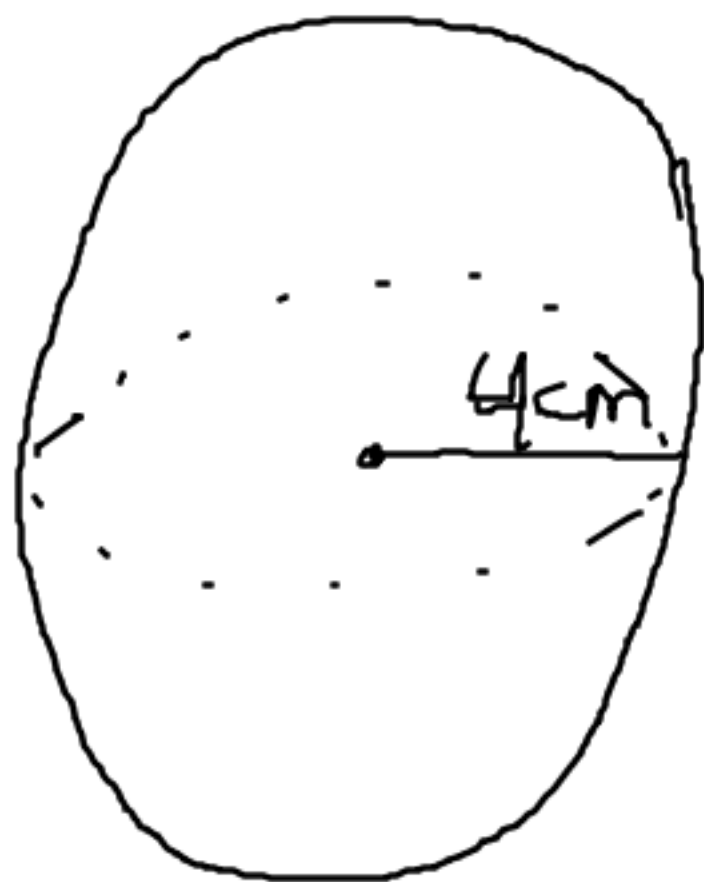
$$V = \frac{lwh}{3}$$

$$V = \frac{(3)(3)(5)}{3}$$

$$V = \frac{45}{3}$$

$$V = 15 \text{ m}^3$$

8)



$$V = \frac{4\pi r^3}{3}$$

$$V = \frac{(4)(\pi)(4)^3}{3}$$

$$V = \frac{(4)(\pi)(64)}{3}$$

$$V = \frac{803}{3}$$

$$V = 268 \text{ cm}^3$$

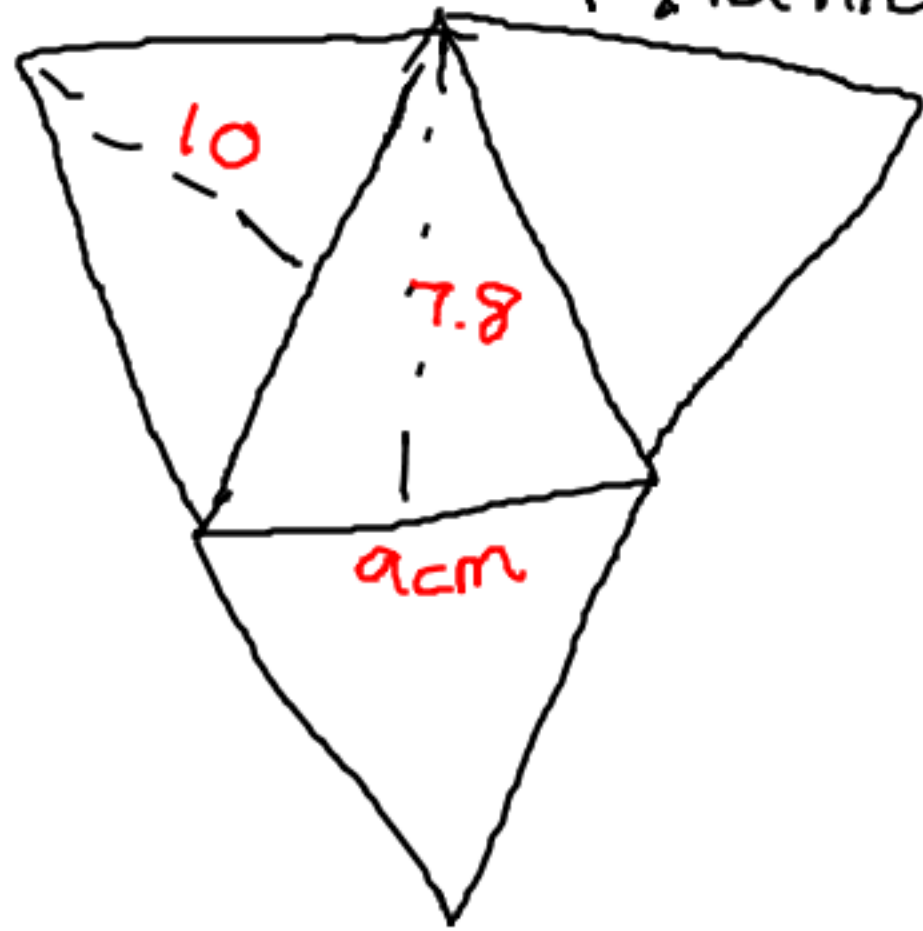
9) on board

Find the surface area — draw
the net
and find the volume

→ include formulas

11) For hw:

Triangular Based
Pyramid



$$SA = \frac{bh}{2} + 3\left(\frac{bh}{2}\right)$$

$$SA = \frac{9(7.8)}{2} + \frac{3(9)(10)}{2}$$

$$SA = \frac{70.2}{2} + \frac{270}{2}$$

$$SA = 35.1 + 135$$

$$SA = 170.1 \text{ cm}^2$$

Do #14 on boards: find volume and
surface area

Homework

pg. 292 # 2, 4, 5, 7, 10, 11, 12, 15

Handout front + back

due Thursday