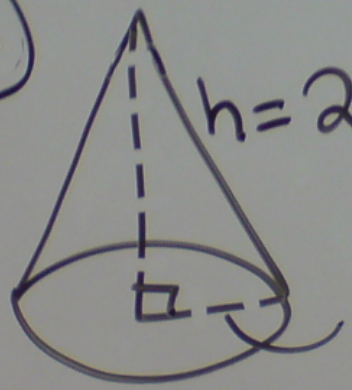
7.4 Volume of Pyramids & Cones

7.4

Pg. 421

2a)

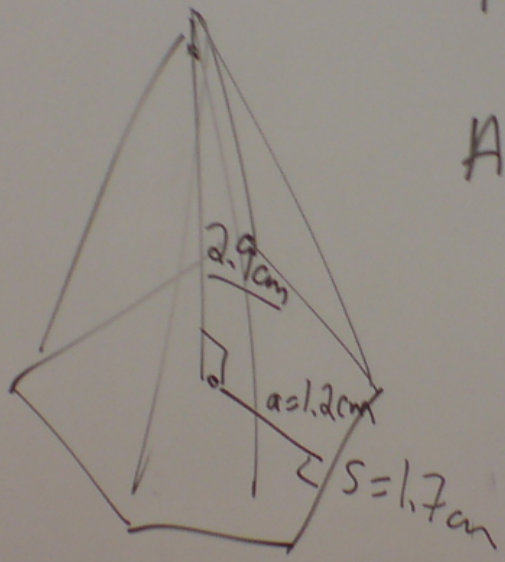


$V = \frac{1}{3}\pi r^2 h$

$V = \frac{1}{3}\pi (1)^2 (2)$

$V = 2.1 m^3$

7.4
pg 421
#2c



$$A_{base} = \frac{P \cdot a}{2}$$

$$A_{base} = \frac{(1.7)(5)(1.2)}{2}$$

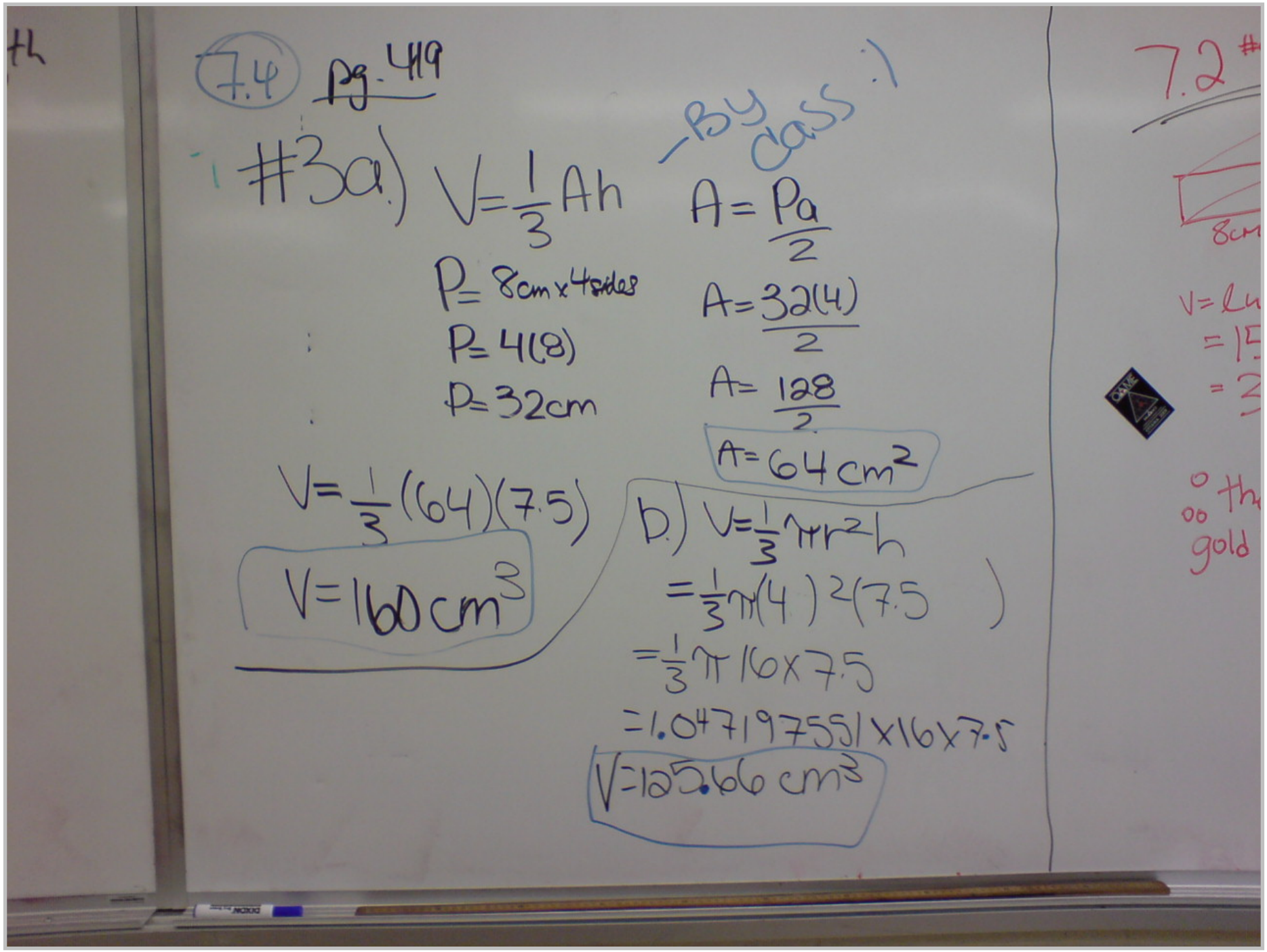
$$A_{base} = 5.1\ cm^2$$

$$V_{\text{Pentagonal Pyramid}} = \frac{1}{3}(5.1)(2.9)$$

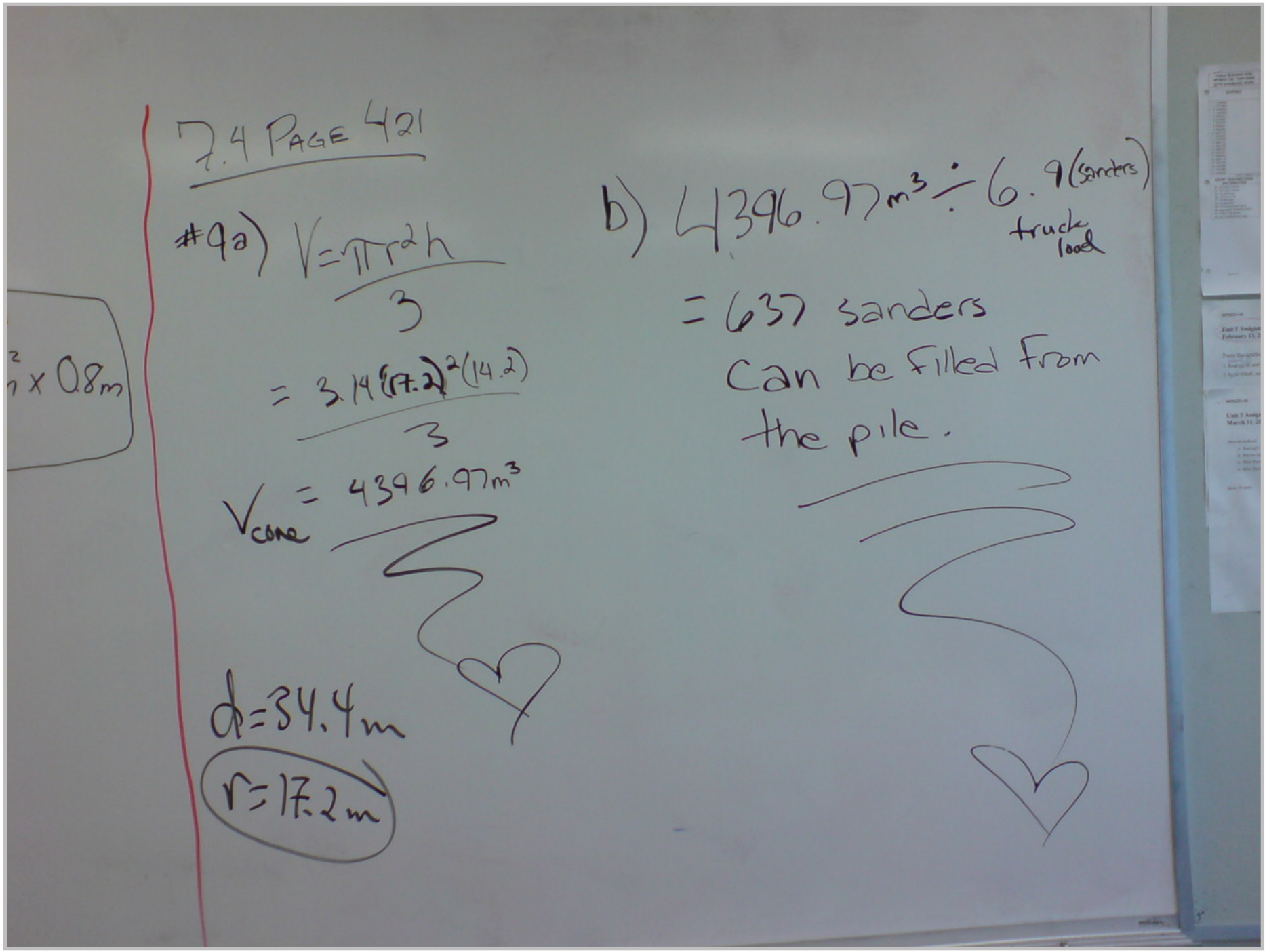
$$V = 4.93\ cm^3$$

7.4
pg 421
2d)

Title: Untitled (2 of 5)



Title: Untitled (3 of 5)



Title: Untitled (4 of 5)

7.4 pg 421 #13

volume of tent = volume of base + Volume of pyramid.
(rectangular prism)

volume of base = l x w x h
= 3m x 3m x 2m
= $18m^3$

volume of pyramid = $\frac{1}{3}Ah$
= $\frac{1}{3} \times 9m^2 \times 0.8m$
= $2.4m^3$

→ total volume of tent
= $18m^3 + 2.4m^3$
= $20.4m^3$

7.4 Pag

#9a) V=

= 3

V_{cone} =

d=34.

r=17.