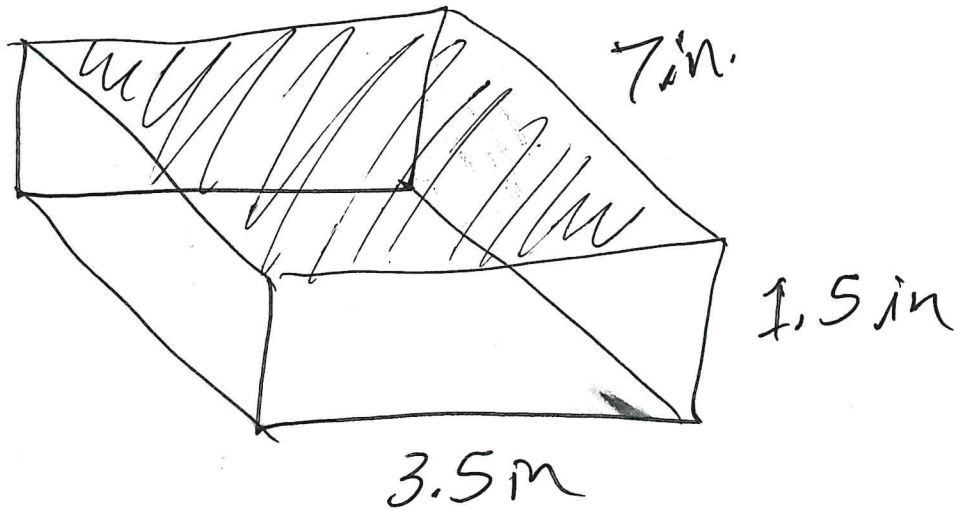


1/24/2022

M3 Lesson 7

Pyramids & Cones

Review: prism



$$SA = 2(B) + \text{Area of the sides (lateral)}$$

area of base

Cylinder:

$$r = 1.5 \text{ in}$$

$$h = 9 \text{ in}$$

$$SA = 2\pi rh + 2\pi r^2$$

$$SA = \underline{2\pi(1.5)(9)} + \underline{2\pi(1.5^2)}$$

$$SA = 27\pi + 4.5\pi$$

$$SA = 31.5\pi \text{ in}^2$$

$$31.5 \cdot 3.14$$

$$SA = 98.96 \text{ in}^2$$

Pyramids:

$$SA = \cancel{\Delta A} + B$$

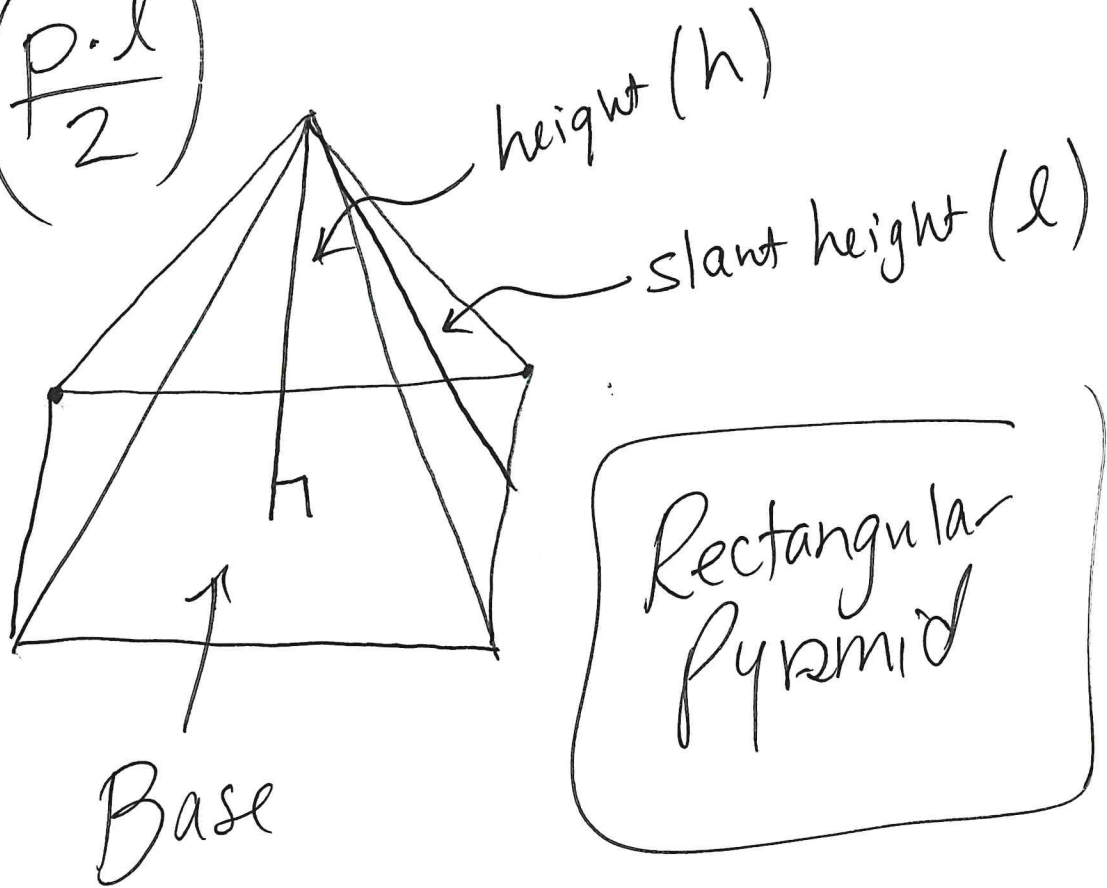
(Area of faces) (area of base)

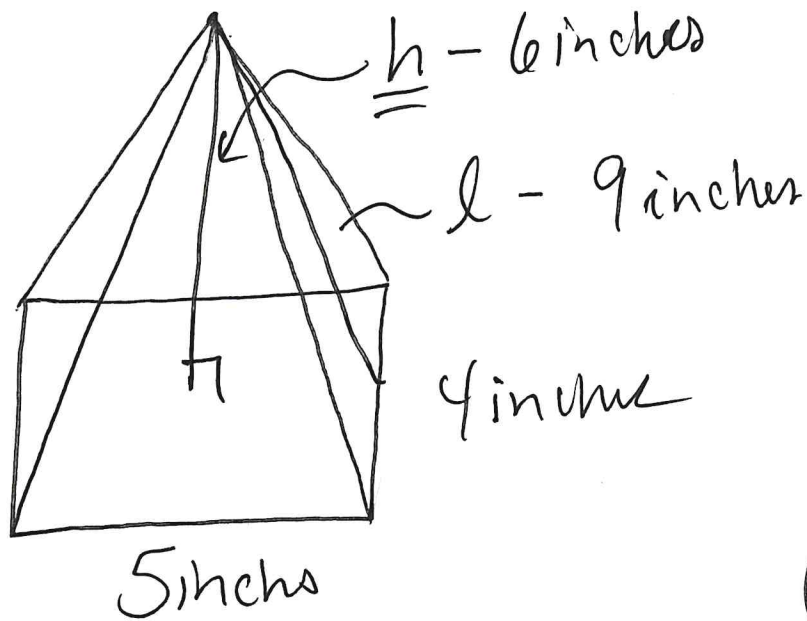
my set up \Rightarrow

$$\left(\frac{p \cdot l}{2} \right)$$

$p \rightarrow$ perimeter of base

$l \rightarrow$ slant height





$p \rightarrow$ perimeter of base

Rectangular pyramid

$$SA = \frac{p \cdot l}{2} + B$$

(area of bases)

$$SA = \frac{(5+4+5+4) \cdot 9}{2} + (b \cdot h)$$

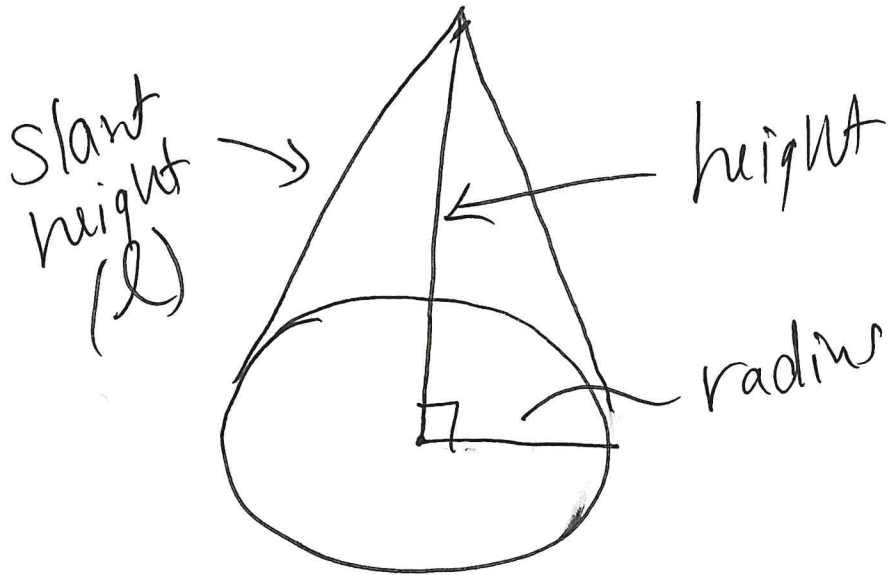
$$= \frac{18 \cdot 9}{2} + (5 \cdot 4)$$

$$= \frac{162}{2} + 20$$

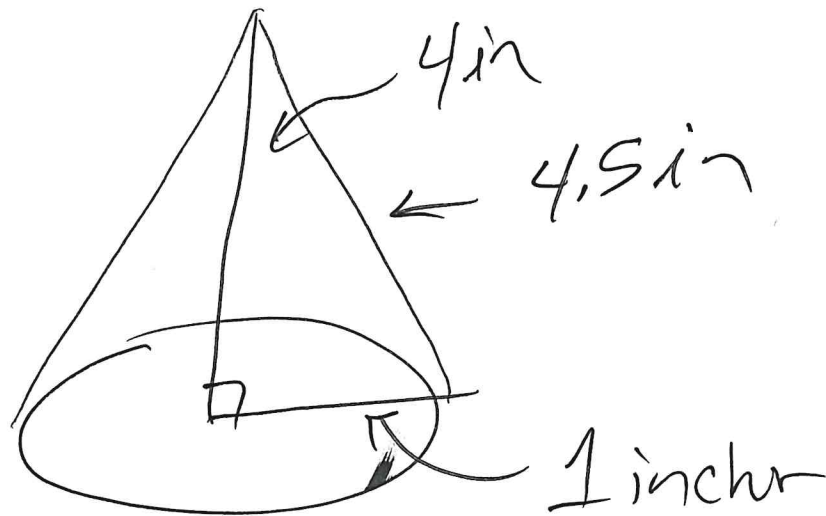
$$= 81 + 20$$

$$= 101 \text{ inches}^2$$

Cone: $SA = \pi r l + \pi r^2$



(ic 1) Find surface Area of your cone



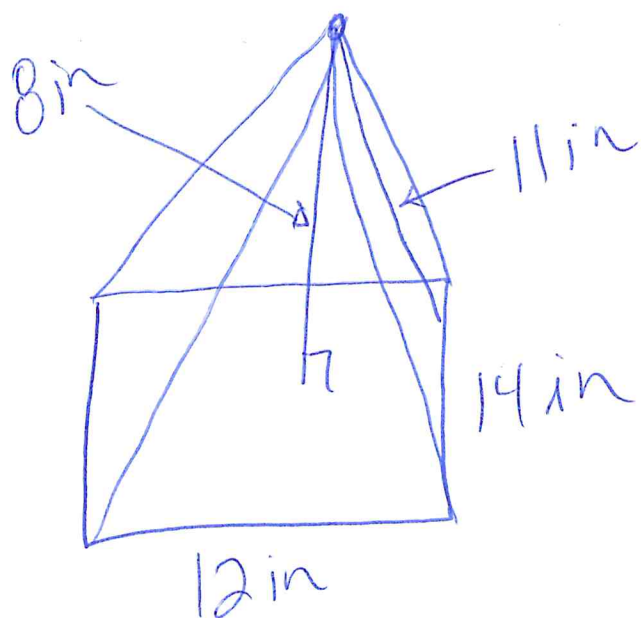
$$SA = \pi (1)(4.5) + \pi (1^2)$$

$$SA = 4.5\pi + 1\pi$$

$$SA = 5.5\pi \text{ in}^2$$

M3 Lesson 7
pgs 44-45 #1-2

1.) Find Surface Area of Rectangular Pyramid



2) Find Surface Area of a Cone

