

PRISMS + CYLINDERS

VOLUME

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

$$d = \underline{3 \text{ inches}}$$

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



$$A = b \cdot h$$

$$V = \text{Base} \cdot \text{height}$$

$$(\pi \cdot r^2) \cdot h$$

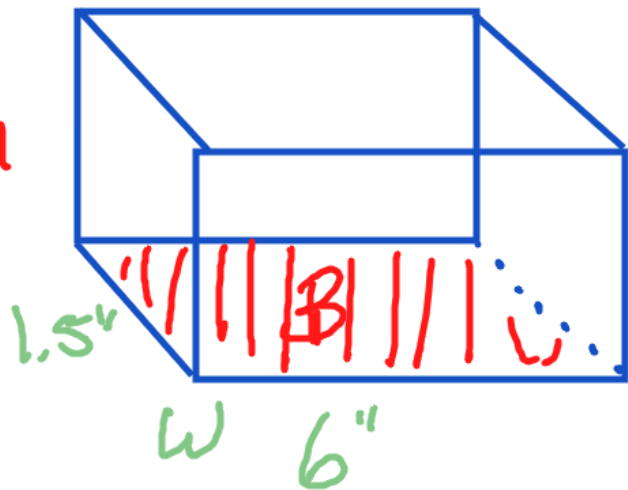
$$V = \underline{\pi r^2 h}$$

$$V = \pi (1.5)^2 (5) = \underline{35.34 \text{ in}^3}$$
$$= \underline{11.25 \pi \text{ in}^3}$$

Prism

$w = 5.5'' = h$

l



$$V = \underline{B} \cdot h$$

$$\begin{aligned} V &= \underline{l \cdot w} \cdot h \\ &= 1.5(6)(5.5) \\ &= 49.5 \text{ in}^3 \end{aligned}$$

SURFACE AREA

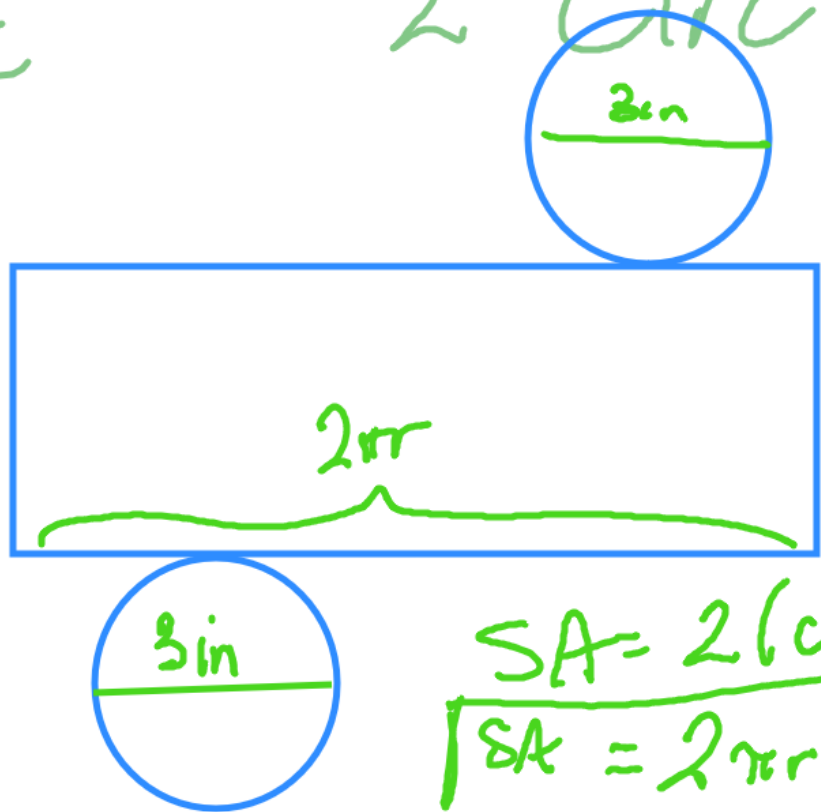
2 circles

Net

$h = 5 \text{ in}$

$r = 1.5 \text{ in}$

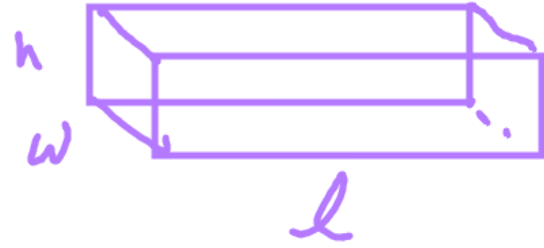
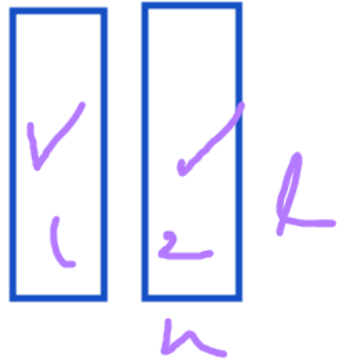
πr^2



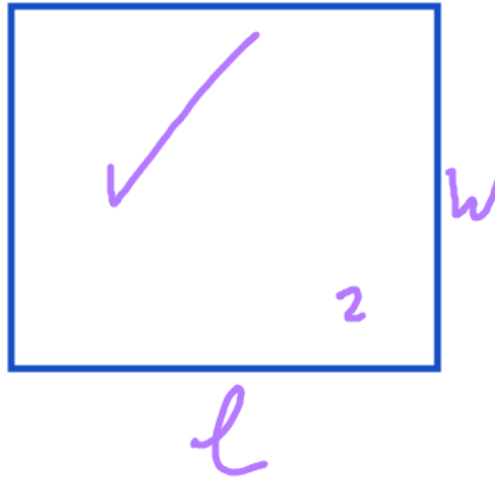
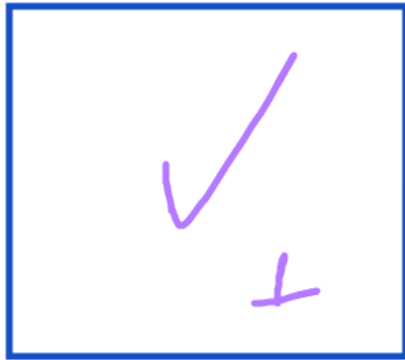
$SA = 2(\text{circ}) + 1 \text{ rect}$ (b.w)

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

SA-Prism-RECHNUNG



$$SA = 2lw + 2wh + 2lh$$



Opt 1: p476 6-12, 16-21

Opt 2: KUTA - SA

Opt 3: KUTA - Volume