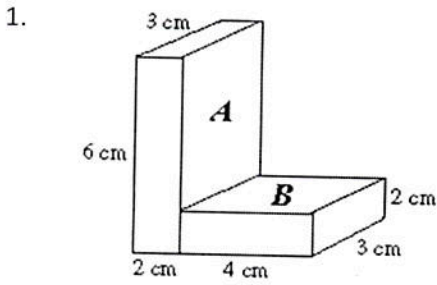


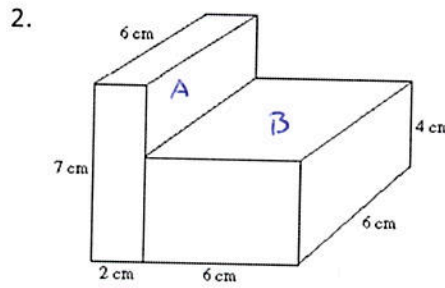
Calculate the volume of each composite figure. Round your answer to the nearest hundredth, if necessary.



$$V_A = 2(3)(6) = 36 \text{ cm}^3$$

$$V_B = 4(3)(2) = 24 \text{ cm}^3$$

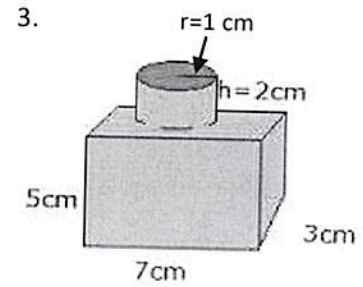
$$\begin{aligned} \text{Total Volume} &= V_A + V_B \\ &= 36 + 24 \\ &= \boxed{60 \text{ cm}^3} \end{aligned}$$



$$V_A = 2(6)(4) = 48 \text{ cm}^3$$

$$V_B = 6(6)(4) = 144 \text{ cm}^3$$

$$\begin{aligned} \text{Total Volume} &= 48 + 144 \\ &= \boxed{192 \text{ cm}^3} \end{aligned}$$



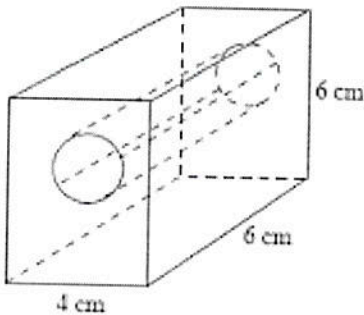
$$V_{\text{cylinder}} = \pi(1)^2(2) = 2\pi \text{ cm}^3$$

$$V_{\text{prism}} = 7(3)(5) = 105 \text{ cm}^3$$

$$\begin{aligned} \text{Total Volume} &= 2\pi + 105 \\ &= \boxed{111.28 \text{ cm}^3} \end{aligned}$$

A cylindrical tube is removed from a prism. How much volume of the prism is left? Round your answer to the nearest hundredth.

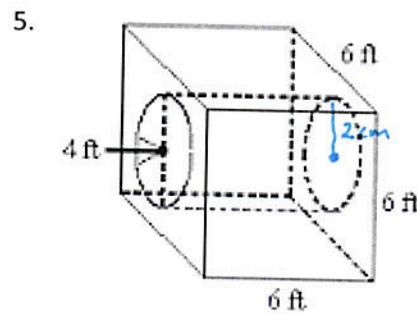
4. radius of cylinder = 1.5 cm



$$V_{\text{prism}} = 4(6)(6) = 144 \text{ cm}^3$$

$$V_{\text{cyl}} = \pi(1.5)^2(6) = 13.5\pi \text{ cm}^3$$

$$\begin{aligned} V_{\text{left}} &= V_{\text{prism}} - V_{\text{cyl}} \\ &= 144 - 13.5\pi \\ &= \boxed{101.59 \text{ cm}^3} \end{aligned}$$



$$\text{radius} = r = \frac{4}{2} = 2$$

$$V_{\text{prism}} = 6(6)(6) = 216 \text{ ft}^3$$

$$V_{\text{cyl}} = \pi(2)^2(2) = 24\pi \text{ ft}^3$$

$$\begin{aligned} V_{\text{left}} &= V_{\text{prism}} - V_{\text{cyl}} \\ &= 216 - 24\pi \\ &= \boxed{140.6 \text{ ft}^3} \end{aligned}$$