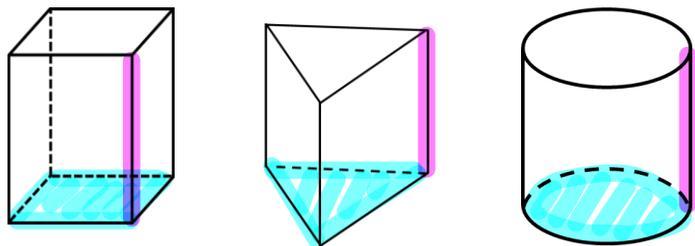


立体の体積

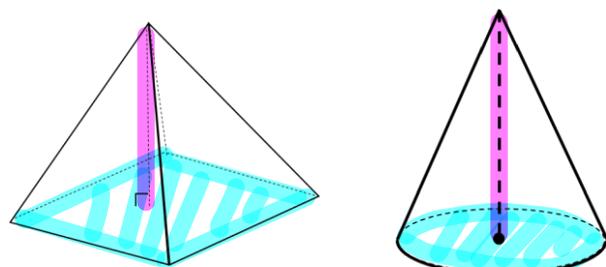
柱体？錐体？を判断して求めよう！

柱体



$$\text{体積} = (\text{底面積}) \times (\text{高さ})$$

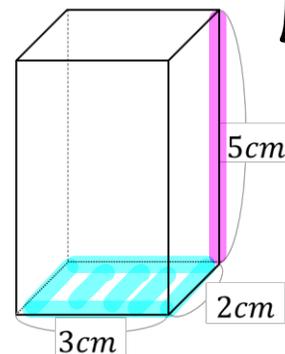
錐体



$$\text{体積} = (\text{底面積}) \times (\text{高さ}) \times \frac{1}{3}$$

例題

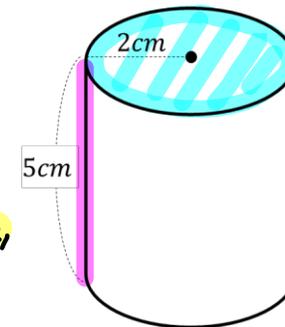
次の体積を求めなさい。



$$\text{底} \quad 2 \times 3 = 6$$

$$6 \times 5 = 30 \text{ cm}^3$$

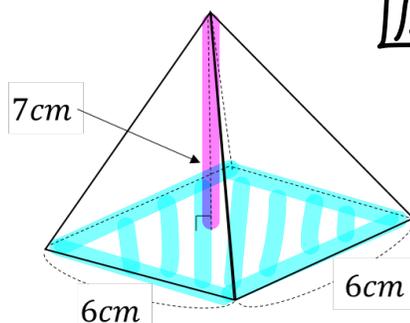
(底) (高)



$$\text{底} \quad \pi r^2 = 4\pi$$

$$4\pi \times 5 = 20\pi \text{ cm}^3$$

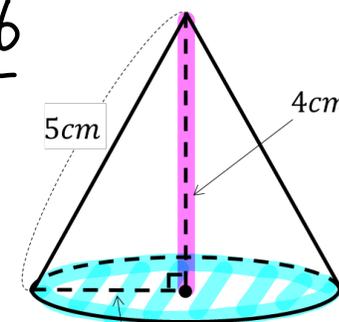
(底) (高)



$$\text{底} \quad 6 \times 6 = 36$$

$$36 \times 7 \times \frac{1}{3} = 84 \text{ cm}^3$$

(底) (高)



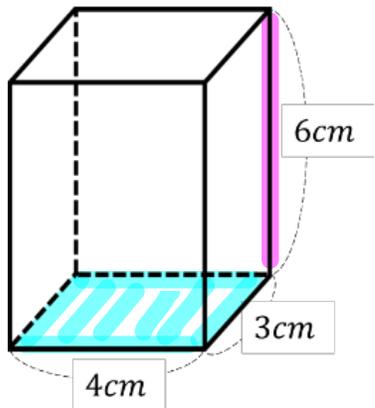
$$\text{底} \quad \pi \times 3^2 = 9\pi$$

$$9\pi \times 4 \times \frac{1}{3} = 12\pi \text{ cm}^3$$

(底) (高)

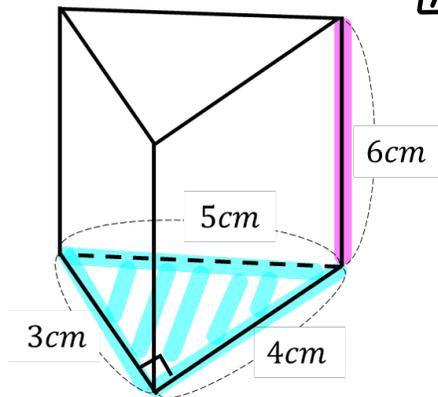
演習TRY

次の体積を求めなさい。



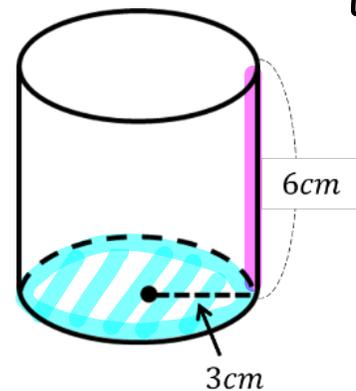
底 $3 \times 4 = 12$

$12 \times 6 = 72 \text{ cm}^3$



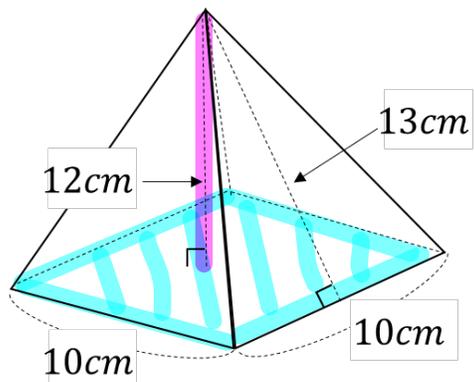
底 $\frac{\text{底辺} \times \text{高さ}}{2}$
 $3 \times 4 \times \frac{1}{2} = 6$

$6 \times 6 = 36 \text{ cm}^3$



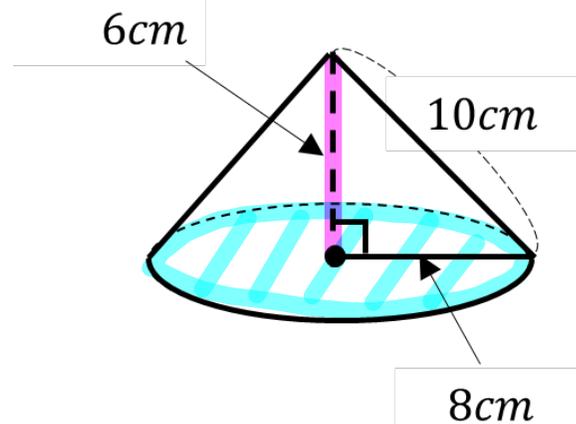
底 $\pi \times 3^2 = 9\pi$

$9\pi \times 6 = 54\pi \text{ cm}^3$



底 $10 \times 10 = 100$

$100 \times 12 \times \frac{1}{3} = 400 \text{ cm}^3$



底 $\pi \times 8^2 = 64\pi$

$64\pi \times 6 \times \frac{1}{3} = 128\pi \text{ cm}^3$