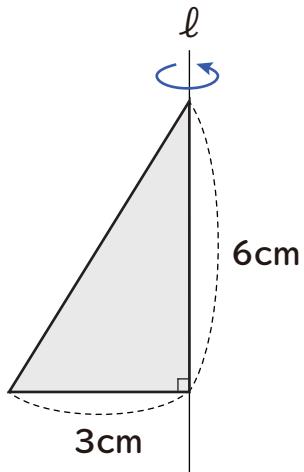


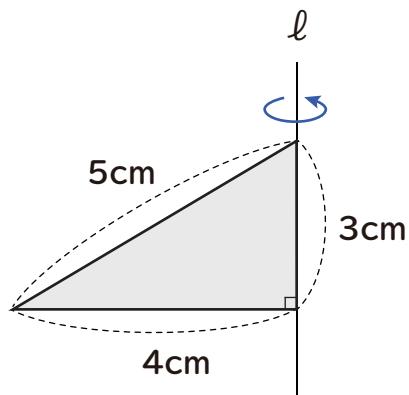
# 角すいや円すいの体積

次の図形を、直線  $\ell$  で 1 回転させた時にできる立体の体積を求めましょう。

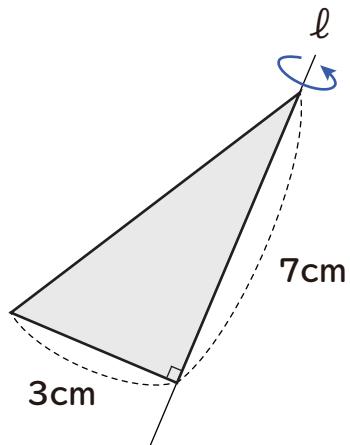
①



②



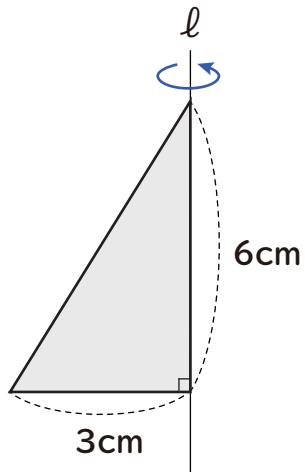
③



# 角すいや円すいの体積

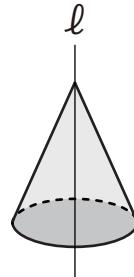
次の図形を、直線  $\ell$  で 1 回転させた時にできる立体の体積を求めましょう。

①



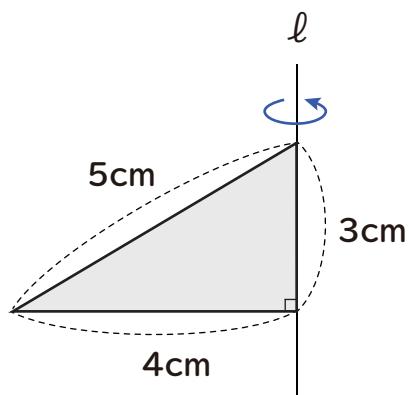
$$\text{底面積} : \pi \times 3 \times 3 = 9\pi$$

$$\text{体積} : \frac{1}{3} \times 9\pi \times 6 = 18\pi$$



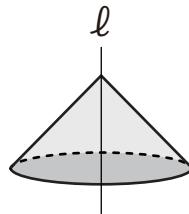
$$\underline{\underline{18\pi \text{ cm}^3}}$$

②



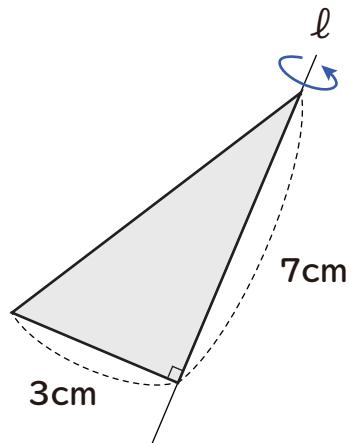
$$\text{底面積} : \pi \times 4 \times 4 = 16\pi$$

$$\text{体積} : \frac{1}{3} \times 16\pi \times 3 = 16\pi$$



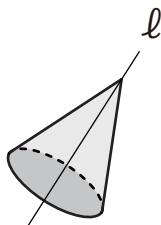
$$\underline{\underline{16\pi \text{ cm}^3}}$$

③



$$\text{底面積} : \pi \times 3 \times 3 = 9\pi$$

$$\text{体積} : \frac{1}{3} \times 9\pi \times 7 = 21\pi$$



$$\underline{\underline{21\pi \text{ cm}^3}}$$