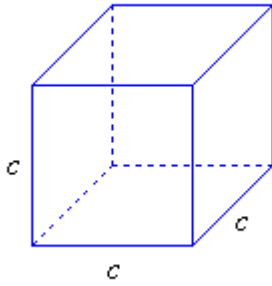


**VOLUME  $\mathcal{V}$  et AIRE Totale  $\mathcal{A}$**

**Cube**

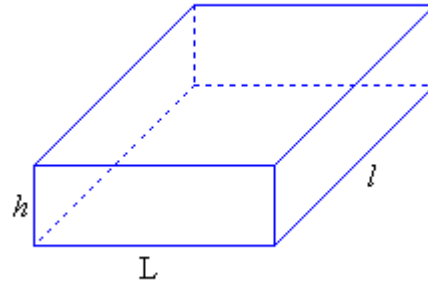


⊗ Euclid'

$$\mathcal{A} = 6c^2$$

$$\mathcal{V} = c^3$$

**Pavé droit**

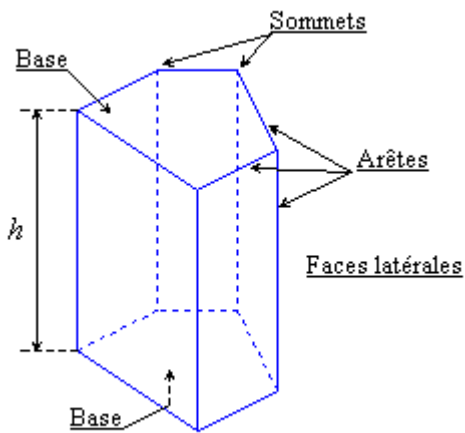


⊗ Euclid'

$$\mathcal{A} = 2 \times (L \times l + L \times h + l \times h)$$

$$\mathcal{V} = L \times l \times h$$

**Prisme droit**

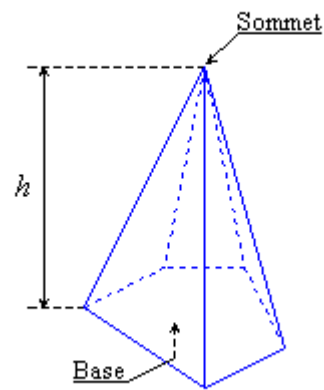


⊗ Euclid'

$$\mathcal{A} = \text{périmètre}(\text{base}) \times h + 2 \times \text{aire}(\text{Base})$$

$$\mathcal{V} = \text{aire}(\text{Base}) \times h$$

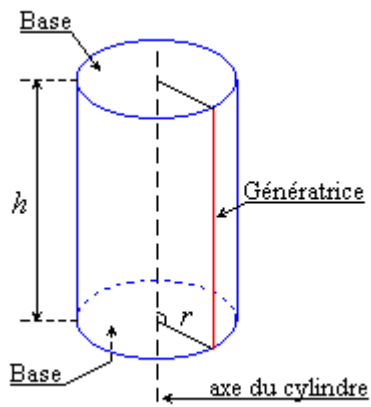
**Pyramide**



⊗ Euclid'

$$\mathcal{V} = \frac{1}{3} \text{aire}(\text{Base}) \times h$$

### Cylindre de révolution

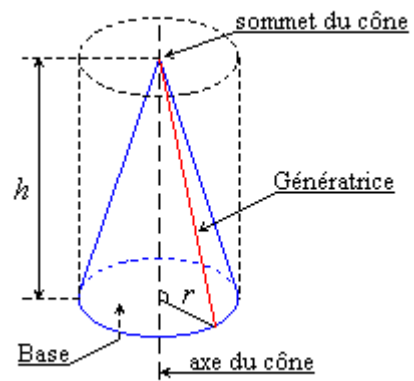


⊗ Euclid'

$$\mathcal{A} = 2\pi r h + 2\pi r^2$$

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

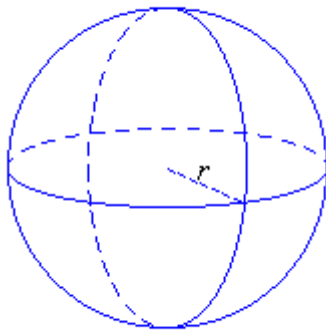
### Cône de révolution



⊗ Euclid'

$$\mathcal{V} = \frac{1}{3} \pi r^2 h$$

### Sphère - Boule

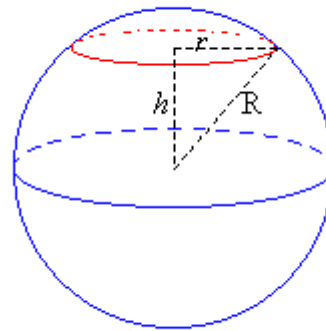


⊗ Euclid'

$$\mathcal{A} = 4\pi r^2$$

$$\mathcal{V} = \frac{4}{3}\pi r^3$$

### Section d'une sphère par un plan



⊗ Euclid'

$$r = \sqrt{R^2 - h^2}$$