

Formulaire



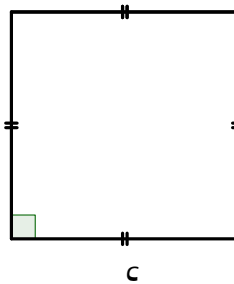
I les Aires

le Rectangle



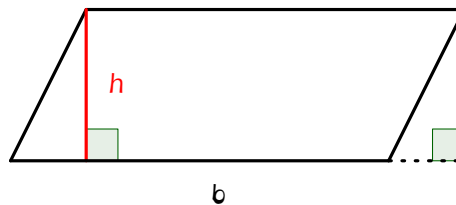
$$A = \text{Longueur} \times \text{largeur} = L \times l$$

cas particulier : **le Carré**



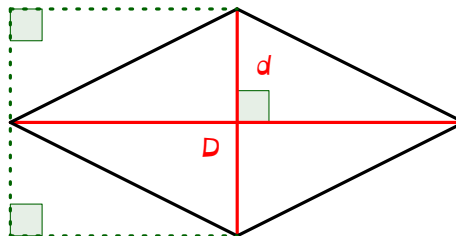
$$A = \text{côté} \times \text{côté} = c \times c = c^2$$

le Parallélogramme



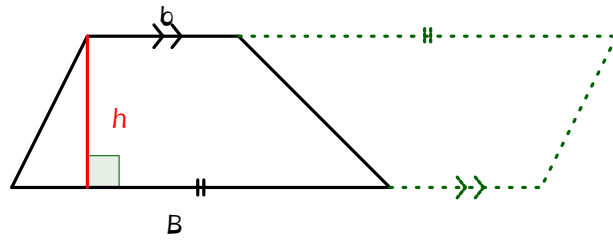
$$A = \text{base} \times \text{hauteur} = h \times b$$

le Losange



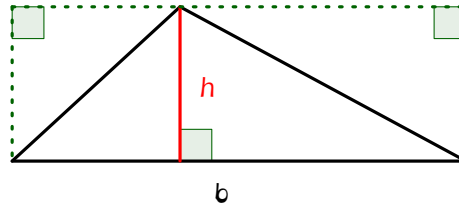
$$A = \frac{\text{petite diagonale} \times \text{grande Diagonale}}{2} = \frac{d \times D}{2}$$

le Trapèze



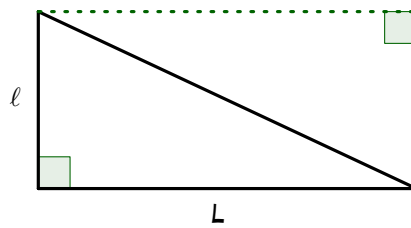
$$A = \frac{(\text{petite base} + \text{grande Base}) \times \text{hauteur}}{2} = \frac{(b + B) \times h}{2}$$

le Triangle



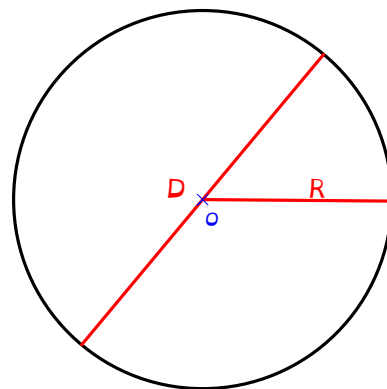
$$A = \frac{(\text{base} \times \text{hauteur})}{2} = \frac{b \times h}{2}$$

cas particulier : le Triangle Rectangle



$$A = \frac{\text{Longueur} \times \text{largeur}}{2} = \frac{L \times l}{2}$$

le Cercle

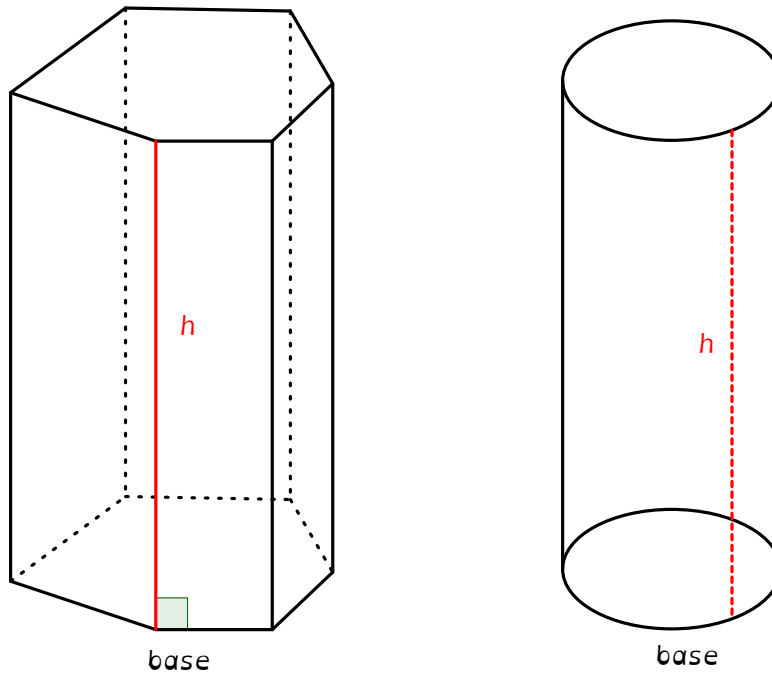


$$P = 2 \times \text{Rayon} \times \pi = 2 \times R \times \pi = \text{Diamètre} \times \pi = D \times \pi$$

$$A = \text{Rayon} \times \text{Rayon} \times \pi = R \times R \times \pi = R^2 \times \pi$$

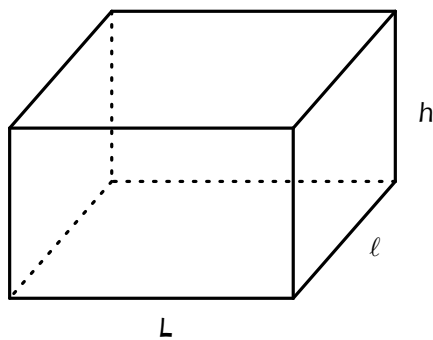
II les Volumes

les Prismes et les Cylindres



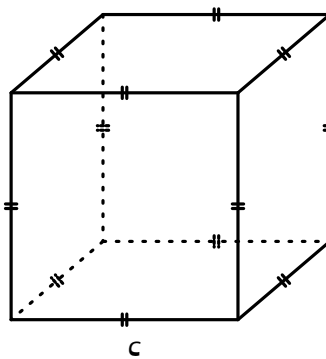
$$V = Aire_{base} \times hauteur = A_{base} \times h$$

cas particulier : **les Parallélépipèdes Rectangle** ou Pavé Droit



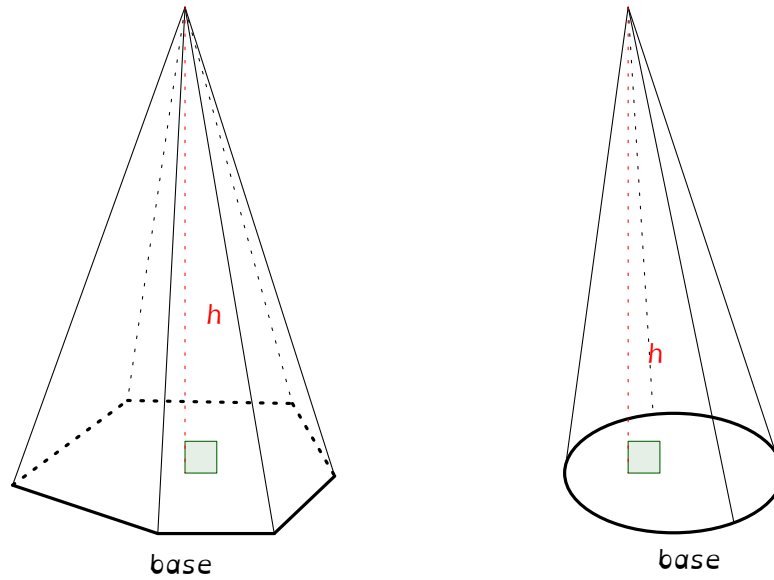
$$V = Longueur \times largeur \times hauteur = L \times l \times h$$

cas particulier : **le Cube**



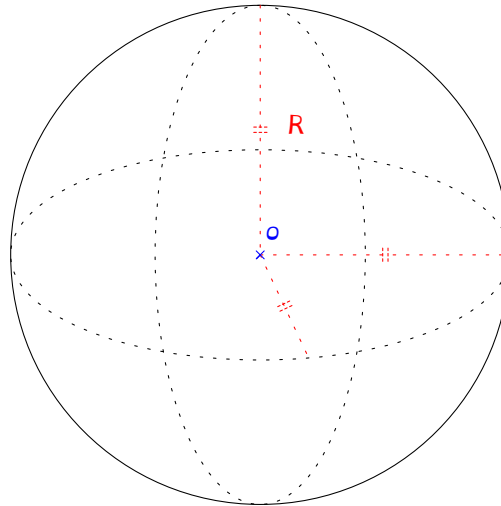
$$V = c\hat{ot}\acute{e} \times c\hat{ot}\acute{e} \times c\hat{ot}\acute{e} = c \times c \times c = c^3$$

les Pyramides et les Cônes



$$V = \frac{\text{Aire}_{\text{base}} \times \text{hauteur}}{3} = \frac{\text{A}_{\text{base}} \times h}{3}$$

la Sphère



$$\text{A}_{\text{surface}} = 4 \times \text{Rayon} \times \text{Rayon} \times \pi = 4 \times R^2 \times \pi$$

$$V = \frac{4 \times \text{Rayon} \times \text{Rayon} \times \text{Rayon} \times \pi}{3} = \frac{4 \times R^3 \times \pi}{3}$$