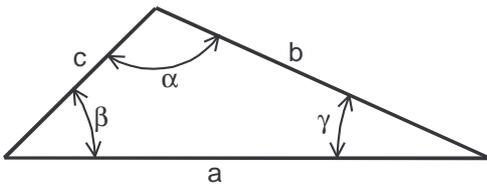


Formulaire de géométrie

Relations dans un triangle :



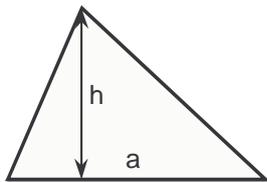
$$\alpha + \beta + \gamma = \pi$$

$$a^2 = b^2 + c^2 - 2bc \cos \alpha$$

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma}$$

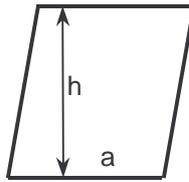
Surfaces courantes :

Triangle



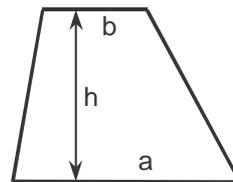
$$\text{Aire} = \frac{a \cdot h}{2}$$

Parallélogramme



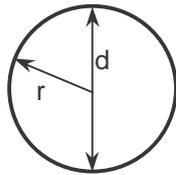
$$\text{Aire} = a \cdot h$$

Trapèze



$$\text{Aire} = \frac{a+b}{2} h$$

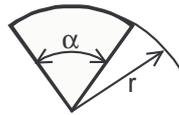
Cercle



$$\text{Aire} = \frac{\pi \cdot d^2}{4} = \pi \cdot r^2$$

$$\text{Circonférence} = 2\pi \cdot r$$

Secteur angulaire



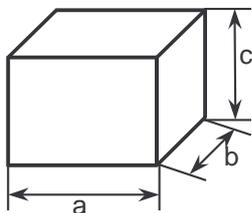
$$\text{Aire} = \frac{\alpha \cdot r^2}{2}$$

α en radians

$$\text{Longueur curviligne} = \alpha \cdot r$$

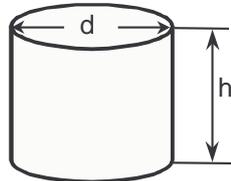
Volumes courants :

Parallélépipède



$$\text{Volume} = a \cdot b \cdot c$$

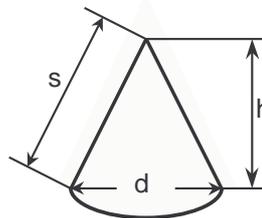
Cylindre



$$\text{Volume} = \frac{\pi \cdot d^2 \cdot h}{4}$$

$$\text{Aire}_{\text{latérale}} = \pi \cdot d \cdot h$$

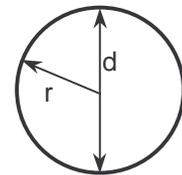
Cône



$$\text{Volume} = \frac{\pi \cdot d^2 \cdot h}{12}$$

$$\text{Aire}_{\text{latérale}} = \frac{\pi \cdot d \cdot s}{2}$$

Sphère



$$\text{Volume} = \frac{\pi \cdot d^3}{6} = \frac{4}{3} \pi \cdot r^3$$

$$\text{Aire} = \pi \cdot d^2 = 4\pi \cdot r^2$$