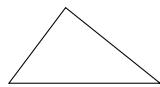


Formulaire figures géométriques

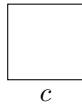
Formules usuelles de calcul de périmètres et d'aires

- Triangle:



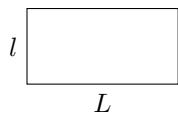
- Périmètre: $\mathcal{P}_{triangle} = \text{somme des longueurs}$
- Aire: $\mathcal{A}_{triangle} = \frac{\text{Côté} \times \text{Hauteur relative à ce côté}}{2}$

- Carré:



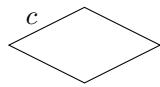
- Périmètre: $\mathcal{P}_{carré} = 4 \times c$
- Aire: $\mathcal{A}_{carré} = c^2$

- Rectangle:



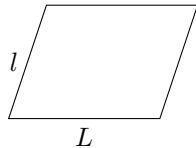
- Périmètre: $\mathcal{P}_{rectangle} = 2 \times (L + l)$
- Aire: $\mathcal{A}_{rectangle} = L \times l$

- Losange:



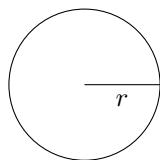
- Périmètre: $\mathcal{P}_{losange} = 4 \times c$
- Aire: $\mathcal{A}_{losange} = \frac{\text{Grande diagonale} \times \text{Petite diagonale}}{2}$

- Parallélogramme:



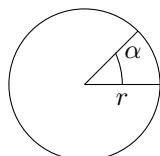
- Périmètre: $\mathcal{P}_{parallélogramme} = 2 \times (L + l)$
- Aire: $\mathcal{A}_{parallélogramme} = \text{Côté} \times \text{Hauteur relative à ce côté}$

- Cercle:



- Périmètre: $\mathcal{P}_{cercle} = 2 \times \pi \times r$
- Aire: $\mathcal{A}_{cercle} = \pi \times r^2$

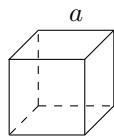
- Arc de cercle:



- Périmètre: $\mathcal{P}_{arc} = \alpha \times r$ pour α en radians
- Aire: $\mathcal{A}_{arc} = \frac{\alpha \times r^2}{2}$ pour α en radians

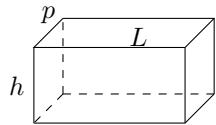
Formules usuelles de calcul de volumes

- Cube:



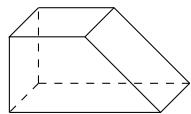
– Volume : $V_{cube} = a^3$

- Pavé droit:



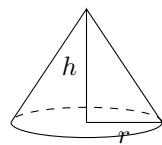
– Volume : $V_{pavé} = L \times h \times p$

- Prisme droit:



– Volume : $V_{prisme} = \text{Aire de la base} \times \text{Hauteur}$

- Cône:



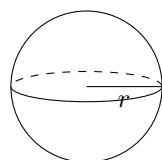
– Volume : $V_{cône} = \frac{\pi \times r^2 \times h}{3}$

- Pyramide:



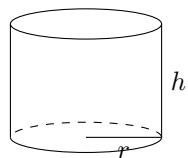
– Volume : $V_{pyramide} = \frac{\text{Aire de la base} \times \text{Hauteur}}{3}$

- Boule:



– Volume : $V_{boule} = \frac{4 \times \pi \times r^3}{3}$

- Cylindre:



– Volume : $V_{cylindre} = \pi \times r^2 \times h$