


# Formules MAT-2101


## CONVERSION DES UNITÉS DE LONGUEUR

÷ 10



Kilomètre	Hectomètre	Décamètre	Mètre	Décimètre	Centimètre	Millimètre
0,001	0,01	0,1	1	10	100	1000

X10


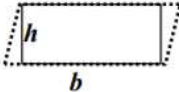
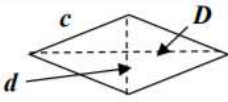
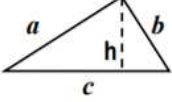
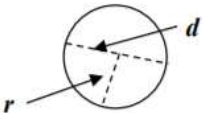
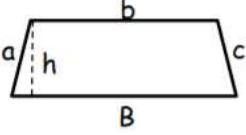


## CONVERSION DE RÉFÉRENCE

$1 \text{ cm}^3 = 1 \text{ mL}$	$1 \text{ dm}^3 = 1 \text{ Litre}$	$1 \text{ m} = 3,281 \text{ pieds}$	$1 \text{ m} = 39,37 \text{ po}$	$1 \text{ po} = 2,54 \text{ cm}$
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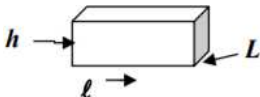
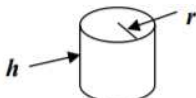
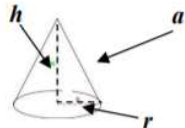
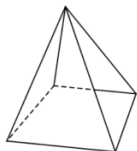
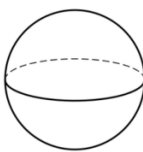
## PÉRIMÈTRE ET AIRE

### DES FIGURES PLANES

Forme	Périmètre	Aire
Carré : 	$P = 4c$	$A = c^2$
Rectangle et Parallélogramme : 	$P_{\text{rectangle}} = 2(b + h)$ $P_{\text{parallé.}} = 2(b + c)$	$A = bh$
Losange : 	$P = 4c$	$A = \frac{Dd}{2}$
Triangle : 	$P = a + b + c$	$A = \frac{bh}{2}$
Cercle : 	$C = 2\pi r$ ou $C = \pi d$	$A = \pi r^2$
Trapèze : 	$P = a + b + c + B$	$A = \frac{(B + b) \times h}{2}$

## AIRE ET VOLUME DE SOLIDES

( $A_B$  = aire de la base,  $P_B$  = périmètre de la base,  $A_l$  = aire latérale,  $A_T$  = aire totale)

Forme	Aire	Volume
Cube : 	$A_l = 4c^2$ $A_T = 6c^2$	$V = c^3$
Prisme rectangulaire : 	$A_T = 2A_B + A_l$ $= 2A_B + P_B \times h$	$V = A_B \times h$
Cylindre : 	$A_T = 2A_B + A_l$ $= 2\pi r^2 + 2\pi r h$	$V = A_B \times h$ $V = \pi r^2 \times h$
Cône : 	$A_T = A_B + A_l$ $= \pi r^2 + \pi r a$	$V = \frac{A_B \times h}{3}$ $= \frac{\pi r^2 h}{3}$
Pyramide : 	$A_T = A_B + A_l$ $= A_B + \frac{P_B \times a}{2}$	$V = \frac{A_B \times h}{3}$
Boule : 	$A_T = 4\pi r^2$	$V = \frac{4\pi r^3}{3}$