

Aire et volume

Prisme droite	$A = 2 \cdot A_{\text{base}} + P_{\text{base}} \cdot h$	$V = A_{\text{base}} \cdot h$
Pyramide droite	$A = A_{\text{base}} + A_{\text{latérales}}$	$V = (1/3) \cdot A_{\text{base}} \cdot h$
Cône droit	$A = \pi \cdot r \cdot l + \pi \cdot r^2$	$V = (1/3) \cdot \pi \cdot r^2 \cdot h$
Cylindre droit	$A = 2 \cdot \pi \cdot r \cdot h + 2 \cdot \pi \cdot r^2$	$V = \pi \cdot r^2 \cdot h$
Sphère	$A = 4 \cdot \pi \cdot r^2$	$V = (4/3) \cdot \pi \cdot r^3$
Hémisphère	$A = 3 \cdot \pi \cdot r^2$	$V = (2/3) \cdot \pi \cdot r^3$

Les mesures impériales

$$1 \text{ pi} = 12 \text{ po}$$

$$1 \text{ vg} = 3 \text{ pi} = 36 \text{ po}$$

$$1 \text{ mi} = 1760 \text{ vg} = 5280 \text{ pi}$$

Les mesures métriques

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ km} = 1000 \text{ m} = 10^5 \text{ cm} = 10^6 \text{ mm}$$

La trigonométrie

SOH CAH TOA

$$\sin(\theta) = \text{opposé} \div \text{hypoténuse}$$

$$\cos(\theta) = \text{adjacent} \div \text{hypoténuse}$$

$$\tan(\theta) = \text{opposé} \div \text{adjacent}$$

$$a^2 + b^2 = c^2$$

$$\angle A + \angle B + \angle C = 180^\circ$$

Lois des exposants

$$a^m \times a^n = a^{m+n}$$

$$a^m / a^n = a^{m-n}$$

$$(a^m)^n = a^{m \cdot n}$$

$$(a \cdot b)^n = a^n \cdot b^n$$

$$(a/b)^n = a^n / b^n$$

$$a^{m/n} = \sqrt[n]{a^m}$$

$$a^{-n} = 1 / a^n$$

$$a^0 = 1$$

Conversions

$$1 \text{ po} = 2,54 \text{ cm}$$

$$1 \text{ pi} = 30,48 \text{ cm} = 0,3048 \text{ m}$$

$$1 \text{ vg} = 91,44 \text{ cm} = 0,9144 \text{ m}$$

$$1 \text{ mi} = 1,609 \text{ km}$$

Les fonctions et les relations

La forme explicite $y = m \cdot x + b$

La forme pente-point $y - y_1 = m \cdot (x - x_1)$

La forme générale $Ax + By + C = 0$

La pente

La pente $m = \Delta y / \Delta x$

$m > 0$ droite montante /

$m = 0$ droite horizontale —

$m < 0$ droite descendante \

m non-définie droite verticale |

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