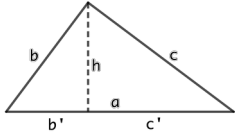


GEOMETRIA PIANA

Rettangolo
 $b = \text{base}$
 $h = \text{altezza}$
 $\text{area} = \mathbf{A} = \mathbf{b} \cdot \mathbf{h}$
 $\text{perimetro} = \mathbf{P} = 2 \cdot (\mathbf{b} + \mathbf{h})$

Triangolo
 $b = \text{base}$
 $h = \text{altezza}$
 $\text{area} = \mathbf{A} = \mathbf{b} \cdot \mathbf{h} : 2$

$a, c = \text{gli altri due lati}$
 $p = \text{semiperimetro} = P : 2$
 $A = \sqrt{p \cdot (p - a) \cdot (p - b) \cdot (p - c)}$



Triangolo Rettangolo

$a = \text{ipotenusa};$ $b, c = \text{cateti}$ $b', c' = \text{proiezioni dei cateti sull'ipotenusa}$
 $\mathbf{a}^2 = \mathbf{b}^2 + \mathbf{c}^2$ $a : b = b : b'$ $a : c = c : c'$ $b' : h = h : c'$

Rombo
 $D = \text{diagonale maggiore}$
 $d = \text{diagonale minore}$
 $\text{area} = \mathbf{A} = \mathbf{D} \cdot \mathbf{d} : 2$
 $\text{lato} = l = \sqrt{\left(\frac{D}{2}\right)^2 + \left(\frac{d}{2}\right)^2}$

Trapezio
 $B = \text{base maggiore}$
 $b = \text{base minore}$
 $h = \text{altezza}$
 $\text{area} = \mathbf{A} = (\mathbf{B} + \mathbf{b}) \cdot \mathbf{h} : 2$

Quadrato
 $\text{lato} = l = \sqrt{A}$
 $\text{diagonale} = d = l \cdot \sqrt{2}$
 $\text{area} = \mathbf{A} = l^2$

Triangolo equilatero
 $l = \text{lato}$
 $\text{altezza} = h = l \cdot \sqrt{3} : 2$

Circonferenza e Cerchio
 $r = \text{raggio}$
 $\text{diametro} = \mathbf{d} = 2 \cdot \mathbf{r}$
 $\text{circonferenza} = \mathbf{C} = 2 \cdot \pi \cdot \mathbf{r}$
 $\text{area} = \mathbf{A} = \pi \cdot \mathbf{r}^2$
 $\text{area del poligono circoscritto} = \mathbf{A}_p = \mathbf{P} \cdot \mathbf{r} : 2$

GEOMETRIA SOLIDA

$V = \text{volume}$
 $A_b = \text{area di base}$ $A_l = \text{area laterale}$ $A_t = \text{area totale}$

$h = \text{altezza}$ $P = \text{perimetro di base}$ $d = \text{diagonale}$ $l = \text{lato}$
 $r = \text{raggio}$ $a = \text{apotema}$ $\mathbf{a}^2 = \mathbf{h}^2 + \mathbf{r}^2$

Prisma, parallelepipedo e cilindro: $\mathbf{A}_l = \mathbf{P} \cdot \mathbf{h}$ $\mathbf{A}_t = 2 \cdot \mathbf{A}_b + \mathbf{A}_l$ $\mathbf{V} = \mathbf{A}_b \cdot \mathbf{h}$
 Cubo: $\mathbf{A}_l = 6 \cdot l^2$ $d = l \cdot \sqrt{3}$ $\mathbf{V} = l^3$
 Piramide retta: $\mathbf{A}_l = \mathbf{P} \cdot \mathbf{a} : 2$ $\mathbf{A}_t = \mathbf{A}_b + \mathbf{A}_l$ $\mathbf{V} = \mathbf{A}_b \cdot \mathbf{h} : 3$
 Cono: $\mathbf{A}_l = \pi \cdot \mathbf{r} \cdot \mathbf{a}$ $\mathbf{A}_t = \mathbf{A}_b + \mathbf{A}_l$ $\mathbf{V} = \mathbf{A}_b \cdot \mathbf{h} : 3$
 Sfera: $\mathbf{A} = 4 \pi \cdot \mathbf{r}^2$ $\mathbf{V} = 4 \pi \cdot \mathbf{r}^3 : 3$