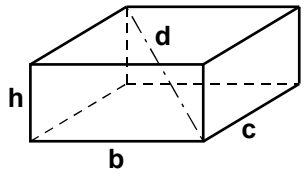
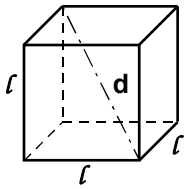
SOLIDI

PARALLELEPIPEDO RETTANGOLO



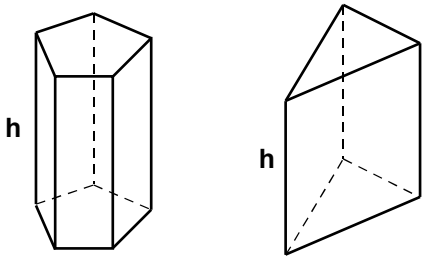
$(2p)_B = 2(b+c)$ *(perimetro della base)*
$S_B = b \cdot c$ *(superficie di base)*
$d = \sqrt{b^2+c^2+h^2}$ *(diagonale)*
$S_L = (2p)_B \cdot h$ *(superficie laterale)*
$S_T = S_L + 2 \cdot S_B$ *(superficie totale)*
$V = S_B \cdot h$ *(volume)*

CUBO



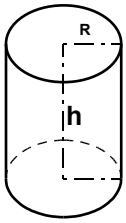
$(2p)_B = 4\,\ell$ *(perimetro della base)*
$S_B = \ell^2$ *(superficie di base)*
$d = \ell\sqrt{3}$ *(diagonale)*
$S_L = (2p)_B \cdot h = 4\,\ell^2$ *(superficie laterale)*
$S_T = S_L + 2 \cdot S_B = 6\,\ell^2$ *(superficie totale)*
$V = S_B \cdot h = \ell^3$ *(volume)*

PRISMA RETTO



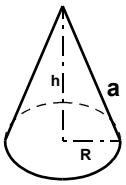
$S_L = (2p)_B \cdot h$ *(superficie laterale)*
$S_T = S_L + 2 \cdot S_B$ *(superficie totale)*
$V = S_B \cdot h$ *(volume)*

CILINDRO CIRCOLARE RETTO



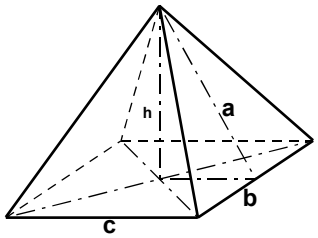
$C_B = 2\pi R$ *(circonferenza di base)*
$S_B = \pi R^2$ *(superficie di base)*
$S_L = C_B \cdot h$ *(superficie laterale)*
$S_T = S_L + 2 \cdot S_B$ *(superficie totale)*
$V = S_B \cdot h$ *(volume)*

CONO CIRCOLARE RETTO



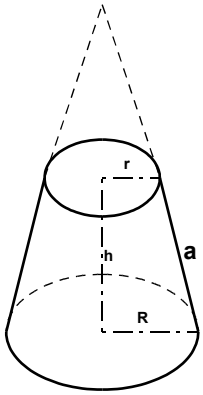
$C_B = 2\pi R$ *(circonferenza di base)*
$S_B = \pi R^2$ *(superficie di base)*
$S_L = \dfrac{C_B \cdot a}{2}$ *(superficie laterale)*
$S_T = S_L + S_B$ *(superficie totale)*
$V = \dfrac{S_B \cdot h}{3}$ *(volume)*

PIRAMIDE RETTA



$S_L = \dfrac{(2p)_B \cdot a}{2}$ *(superficie laterale)*
$S_T = S_L + S_B$ *(superficie totale)*
$V = \dfrac{S_B \cdot h}{3}$ *(volume)*

TRONCO DI CONO CIRCOLARE RETTO



$S_{B\,inf} = \pi R^2$; $C_{B\,inf} = 2\pi R$
$S_{B\,sup} = \pi r^2$; $C_{B\,sup} = 2\pi r$
$S_L = \dfrac{[C_{B\,inf} + C_{B\,sup}] \cdot a}{2} =$
$= \pi (r+R)\, a$ *(superficie laterale)*
$S_T = S_L + S_{B\,inf} + S_{B\,sup}$ *(superficie totale)*

$V = \dfrac{\left(S_{B\,inf} + S_{B\,sup} + \sqrt{S_{B\,inf} \cdot S_{B\,sup}}\right) \cdot h}{3} =$
$= \dfrac{1}{3}\pi h (R^2 + r^2 + R\,r)$ *(volume)*

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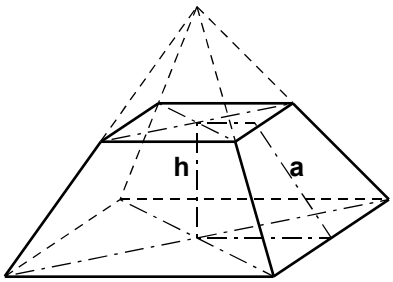
TRONCO DI PIRAMIDE RETTA

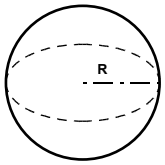


$S_L = \frac{[(2p)_{B\,inf} + (2p)_{B\,sup})] \cdot a}{2}$ *(superficie laterale)*

$S_T = S_L + S_{B\,inf} + S_{B\,sup}$ *(superficie totale)*

$V = \frac{\left(S_{B\,inf} + S_{B\,sup} + \sqrt{S_{B\,inf} \cdot S_{B\,sup}}\right) \cdot h}{3}$ *(volume)*

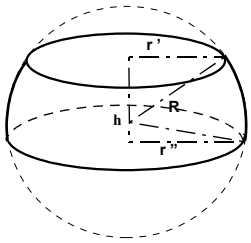
SFERA



$S = 4\pi R^2$

$V = \frac{4}{3}\pi R^3$

ZONA SFERICA
O
SEGMENTO SFERICO A DUE BASI



$S_{B\,inf} = \pi r''^2$ *(superficie della base inferiore)*

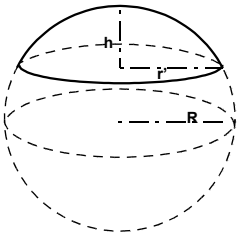
$S_{B\,sup} = \pi r'^2$ *(superficie della base superiore)*

$S_L = 2\pi R h$ *(superficie laterale)*

$S_T = S_L + S_{B\,inf} + S_{B\,sup}$ *(superficie totale)*

$V = \frac{1}{6}\pi h (h^2 + 3r'^2 + 3r''^2)$ *(volume)*

CALOTTA SFERICA
O
SEGMENTO SFERICO AD UNA BASE



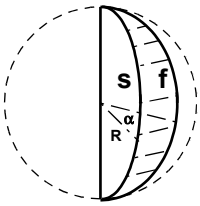
$S_B = \pi r'^2$ *(superficie della base)*

$S_L = 2\pi R h$ *(superficie laterale)*

$S_T = S_L + S_B$ *(superficie totale)*

$V = \frac{1}{3}\pi h^2 (3R - h)$ *(volume)*

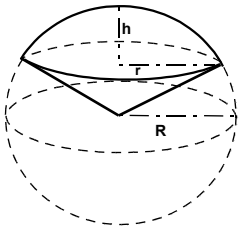
FUSO E SPICCHIO SFERICO



$S_{fuso} = \frac{\pi R^2 \alpha°}{90°}$ *(superficie del fuso sferico)*

$V_{spicchio} = \frac{\pi R^3 \alpha°}{270°}$ *(volume dello spicchio sferico)*

SETTORE SFERICO



$S = \pi R (2h + r)$ *(superficie)*

$V = \frac{2}{3}\pi R^2 h$ *(volume)*