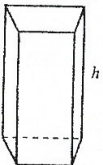
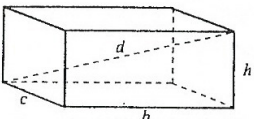
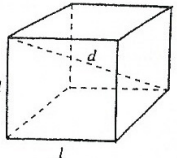
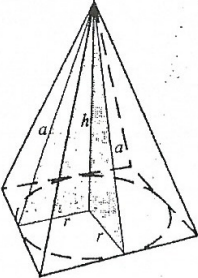
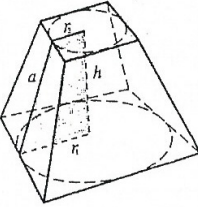
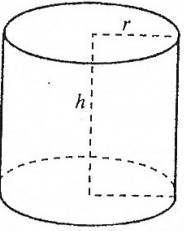
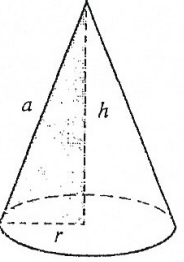


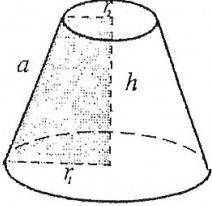
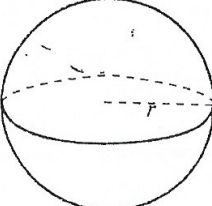
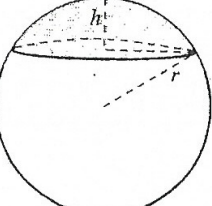
Formulario di geometria solida

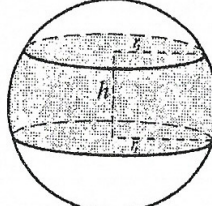
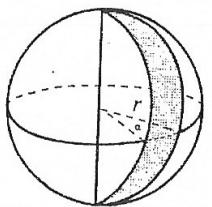
a: apotema
h: altezza
P: perimetro
S_l: area laterale
V: volume
α: misura di un angolo in gradi sessagesimali

d: diagonale
l: lato/spigolo
S_b: area di base
S_t: area totale
ρ: misura di un angolo in radianti

	<p style="text-align: center;">Prisma retto</p> $S_l = P \cdot h$ $S_t = S_l + 2S_b = P \cdot h + 2S_b$ $V = S_b \cdot h$
	<p style="text-align: center;">Parallelepipedo rettangolo</p> $d^2 = h^2 + b^2 + c^2$ $S_l = P \cdot h = 2(b+c) \cdot h$ $S_t = S_l + 2S_b = 2(h \cdot b + h \cdot c + b \cdot c)$ $V = S_b \cdot h = b \cdot c \cdot h$
	<p style="text-align: center;">Cubo (esaedro regolare)</p> $d^2 = 3l^2$ $S_l = 4l^2$ $S_t = 6l^2$ $V = l^3$

	<p style="text-align: center;">Piramide retta</p> $a^2 = h^2 + r^2$ $S_l = \frac{1}{2} P \cdot a$ $S_t = S_l + S_b = \frac{1}{2} P \cdot a + S_b$ $V = \frac{1}{3} S_b \cdot h$
	<p style="text-align: center;">Tronco retto di piramide</p> $a^2 = h^2 + (r_1 - r_2)^2$ $S_l = \frac{1}{2} (P_1 + P_2) \cdot a$ $S_t = S_l + S_1 + S_2$ $V = \frac{1}{3} (S_1 + S_2 + \sqrt{S_1 \cdot S_2}) \cdot h$ <p><i>P₁</i>: perimetro della base maggiore; <i>S₁</i>: area della base maggiore; <i>P₂</i>: perimetro della base minore; <i>S₂</i>: area della base minore.</p>
	<p style="text-align: center;">Cilindro retto</p> $S_l = 2\pi r \cdot h$ $S_t = S_l + 2S_b = 2\pi r \cdot (r + h)$ $V = S_b \cdot h = \pi r^2 \cdot h$
	<p style="text-align: center;">Cono retto</p> $a^2 = h^2 + r^2$ $S_l = \pi r \cdot a$ $S_t = S_l + S_b = \pi r \cdot (a + r)$ $V = \frac{1}{3} S_b \cdot h = \frac{1}{3} \pi r^2 \cdot h$

	<p style="text-align: center;">Tronco di cono retto</p> $a^2 = h^2 + (r_1 - r_2)^2$ $S_l = \pi (r_1 + r_2) \cdot a$ $S_t = S_l + S_1 + S_2 = S_l + \pi (r_1^2 + r_2^2)$ $V = \frac{1}{3} \pi h (r_1^2 + r_2^2 + r_1 \cdot r_2)$ <p>S_1: area della base maggiore; S_2: area della base minore.</p>
	<p style="text-align: center;">Superficie sferica</p> $S = 4\pi r^2$ <p style="text-align: center;">Sfera</p> $V = \frac{4}{3} \pi r^3$
	<p style="text-align: center;">Calotta sferica</p> $S = 2\pi r \cdot h$ <p style="text-align: center;">Segmento sferico a una base</p> $V = \frac{1}{3} \pi h^2 (3r - h)$

	<p style="text-align: center;">Zona sferica</p> $S = 2\pi r \cdot h$ <p style="text-align: center;">Segmento sferico a due basi</p> $V = \frac{1}{6} \pi h (3r_1^2 + 3r_2^2 + h^2)$
	<p style="text-align: center;">Fuso sferico</p> $S = \frac{\pi r^2}{90} \alpha = 2\pi r^2 \frac{\alpha}{360}$ <p style="text-align: center;">Spicchio sferico</p> $V = \frac{\pi r^3}{270} \alpha = \frac{2}{3} \pi r^3 \frac{\alpha}{360}$

Poliedri regolari

l : spigolo
 V : volume

r_i : raggio della sfera circoscritta

S_f : area di una faccia

r_c : raggio della sfera inscritta

nome	S_f	r_i	r_c	V
tetraedro	$\frac{\sqrt{3}}{4} \cdot l^2$	$\frac{\sqrt{6}}{12} \cdot l$	$\frac{\sqrt{6}}{4} \cdot l$	$\frac{\sqrt{2}}{12} \cdot l^3$
esaedro	l^2	$\frac{1}{2} \cdot l$	$\frac{\sqrt{3}}{2} \cdot l$	l^3
ottaedro	$\frac{\sqrt{3}}{4} \cdot l^2$	$\frac{\sqrt{6}}{6} \cdot l$	$\frac{\sqrt{2}}{2} \cdot l$	$\frac{\sqrt{2}}{3} \cdot l^3$
dodecaedro	$\frac{\sqrt{25+10\sqrt{5}}}{4} \cdot l^2$	$\frac{\sqrt{250+110\sqrt{5}}}{20} \cdot l$	$\frac{\sqrt{15+\sqrt{3}}}{4} \cdot l$	$\frac{15+7\sqrt{5}}{4} \cdot l^3$
icosaedro	$\frac{\sqrt{3}}{4} \cdot l^2$	$\frac{\sqrt{42+18\sqrt{5}}}{12} \cdot l$	$\frac{\sqrt{10+2\sqrt{5}}}{4} \cdot l$	$\frac{5(3+\sqrt{5})}{12} \cdot l^3$