

POLIEDROS Y CUERPOS REDONDOS

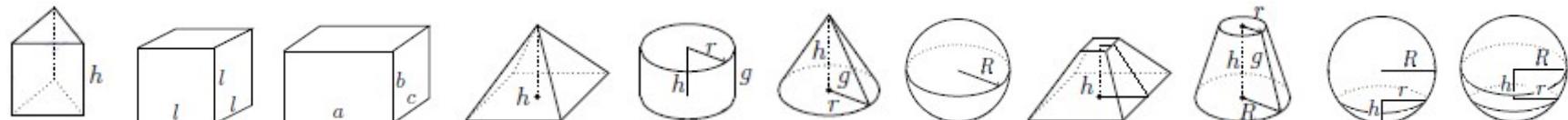


FIGURA 3D	ÁREA	VOLUMEN
PRISMAS	$A_{\text{Total}} = A_{\text{Lateral}} + 2 \cdot A_{\text{Base}}$	$V = \text{Área}_{\text{base}} \cdot \text{Altura}_{\text{prisma}}$
	$A_{\text{Total}} = 6 \cdot A_{\text{Base}} = 6 \cdot \text{lado}^2 = 6 \cdot l^2$	$V = \text{lado}^3 = l^3$
	$A_{\text{Total}} = A_{\text{Lateral}} + 2 \cdot A_{\text{Base}}$	$V = \text{lado} \cdot \text{lado}' \cdot \text{lado}'' = a \cdot b \cdot c$
PIRÁMIDES	$A_{\text{Total}} = A_{\text{Lateral}} + A_{\text{Base}}$	$V = \frac{\text{Área}_{\text{base}} \cdot \text{Altura}_{\text{pirámide}}}{3}$
CILINDROS	$A_{\text{Total}} = A_{\text{Lateral}} + 2 \cdot A_{\text{Base}}$ $= 2\pi rh + 2\pi r^2 = 2\pi r \cdot (h + r)$	$V = \text{Área}_{\text{base}} \cdot \text{Altura}_{\text{cilindro}} = \pi r^2 h$
CONOS	$A_{\text{Total}} = A_{\text{Lateral}} + A_{\text{Base}}$ $= \pi rg + \pi r^2 = \pi r \cdot (g + r)$	$V = \frac{\text{Área}_{\text{base}} \cdot \text{Altura}_{\text{cono}}}{3} = \frac{\pi r^2 h}{3}$
ESFERAS	$A = 4\pi R^2$	$V = \frac{4\pi R^3}{3}$
TRONCOS PIRÁMIDE REGULAR	$A = \frac{\text{Perímetro}_{\text{base}} + \text{Perímetro}_{\text{base}'}}{2} \cdot \text{Altura}_{\text{caras}} + A_{\text{base}} + A_{\text{base}'}$	$V = \frac{h_{\text{tronco}} \cdot (A_{\text{base}} + A_{\text{base}'} + \sqrt{A_{\text{base}} \cdot A_{\text{base}'}})}{3}$
TRONCOS CONO RECTOS	$A_{\text{Total}} = \pi \cdot [g \cdot (R + r) + R^2 + r^2]$	$V = \frac{\pi \cdot h_{\text{tronco}} \cdot (R^2 + r^2 + R \cdot r)}{3}$
CASQUETES POLARES	$A = 2 \cdot \pi \cdot \text{Radio}_{\text{esfera}} \cdot \text{Altura}_{\text{casquete}} = 2\pi Rh$	$R = \frac{(radio_{\text{casquete}})^2 + h^2}{2h} = \frac{r^2 + h^2}{2h}$
ZONAS ESFÉRICAS	$A = 2 \cdot \pi \cdot \text{Radio}_{\text{esfera}} \cdot \text{Altura}_{\text{zona}} = 2\pi Rh$	$V = \frac{\pi h \cdot (h^2 + 3R^2 + 3r^2)}{6}$