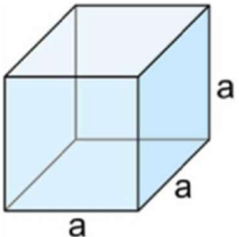
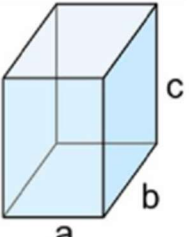
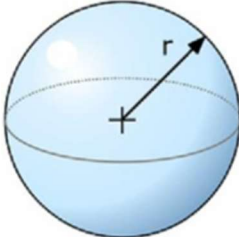
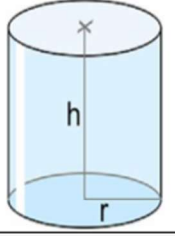
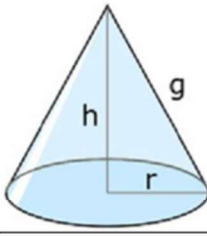
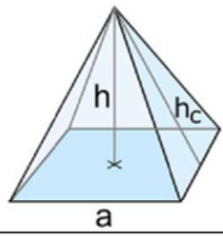
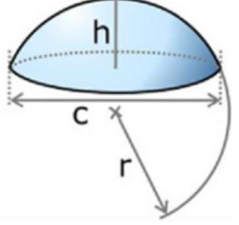
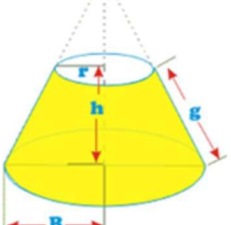
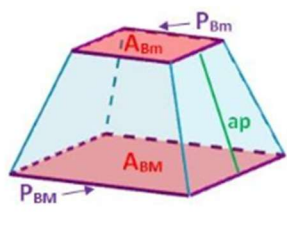
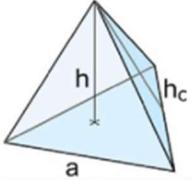
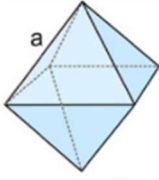
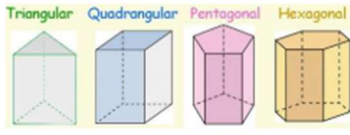


## VOLUMENES

### Áreas y Volúmenes de Figuras en el espacio

Cubo		Ortoedro		Circunferencia	
					
$A_{Lat} = 6a^2$	$V = a^3$	$A_{Lat} = 2(ab + bc + ac)$	$V = abc$	$A_{Lat} = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$
Cilindro		Cono		Pirámide	
					
$A_{Lat} = 2\pi r h$		$A_{Lat} = \pi r g \quad g = \sqrt{h^2 + r^2}$		$A_{Lat} = \frac{Perimetro_{Base} \cdot h_c}{2}$	
$A_{Total} = 2\pi r(r + h)$		$A_{Total} = \pi r(r + g)$		$A_{Total} = A_{Lat} + A_{Base}$	
$V = \pi r^2 \cdot h$		$V = \frac{1}{3}\pi r^2 \cdot h$		$V = \frac{1}{3}A_{Base} \cdot h$	
Casquete		Tronco de cono		Tronco de pirámide	
					
$A_{Lat} = 2\pi r h = \frac{\pi}{4}(c^2 + 4h^2)$		$A_{Lat} = \pi(R + r)g$		$A_{Lat} = \frac{(P_{BM} + P_{Bm})g}{2}$	
$A_{Base} = \frac{\pi c^2}{4} \quad r = \frac{h}{2} + \frac{c^2}{8h}$		$A_{Total} = \pi[(R + r)g + R^2 + r^2]$		$A_{Lat} = \frac{(P_{BM} + P_{Bm})ap}{2} + A_{BM} + A_{Bm}$	
$V = \pi h^2 \left(r - \frac{h}{3}\right) = \frac{\pi}{6}h \left(\frac{3c^2}{4} + h^2\right)$		$V = \frac{\pi h(R^2 + r^2 + Rr)}{3}$		$V = \frac{h(A_{BM} + A_{Bm} + \sqrt{A_{BM} \cdot A_{Bm}})}{3}$	
Tetraedro		Octaedro		Prismas Rectos	
					
$A = \sqrt{3}a^2$	$V = \frac{\sqrt{2}}{12}a^3$	$A = 2\sqrt{3}a^2$	$V = \frac{\sqrt{2}}{3}a^3$	$A = 2A_{base} + nA_{lat}$	$V = A_{base} \cdot h$



## 1 EJERCICIO. - Calcula el volumen el área y el perímetro

