
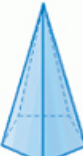





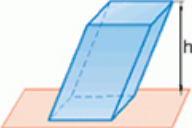
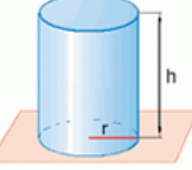
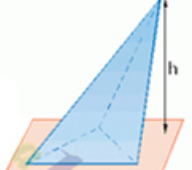
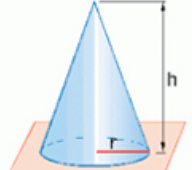



CUERPOS GEOMETRICOS

Cálculo de Áreas y Volúmenes

Versión Septiembre, 2015

Área de cuerpos geométricos	
Figura	Área
 Prisma	$A_{lateral} = \text{Área de sus caras laterales}$ $A_{total} = A_{lateral} + 2 A_{base}$
 Pirámide	$A_{lateral} = \text{Área de sus caras laterales}$ $A_{total} = A_{lateral} + A_{base}$
 Tronco de pirámide	$A_{lateral} = \text{Área de sus caras laterales}$ $A_{total} = A_{lateral} + A_{b_1} + A_{b_2}$
 Cilindro	$A_{lateral} = 2\pi r \cdot g$ $A_{total} = 2\pi r \cdot (g + r)$
 Cono	$A_{lateral} = \pi r \cdot g$ $A_{total} = \pi r \cdot (g + r)$
 Tronco de cono	$A_{lateral} = \pi g \cdot (R + r)$ $A_{total} = \pi g \cdot (R + r) + \pi R^2 + \pi r^2$
 Esfera	$A = 4\pi r^2$

Volumen de cuerpos geométricos	
Figura	Volumen
 Prisma	$V = A_{base} \cdot h$
 Cilindro	$V = A_{base} \cdot h = \pi r^2 \cdot h$
 Pirámide	$V = \frac{1}{3} A_{base} \cdot h$
 Cono	$V = \frac{1}{3} A_{base} \cdot h = \frac{1}{3} \pi r^2 \cdot h$
 Esfera	$V = \frac{4}{3} \pi r^3$