

CILINDRO



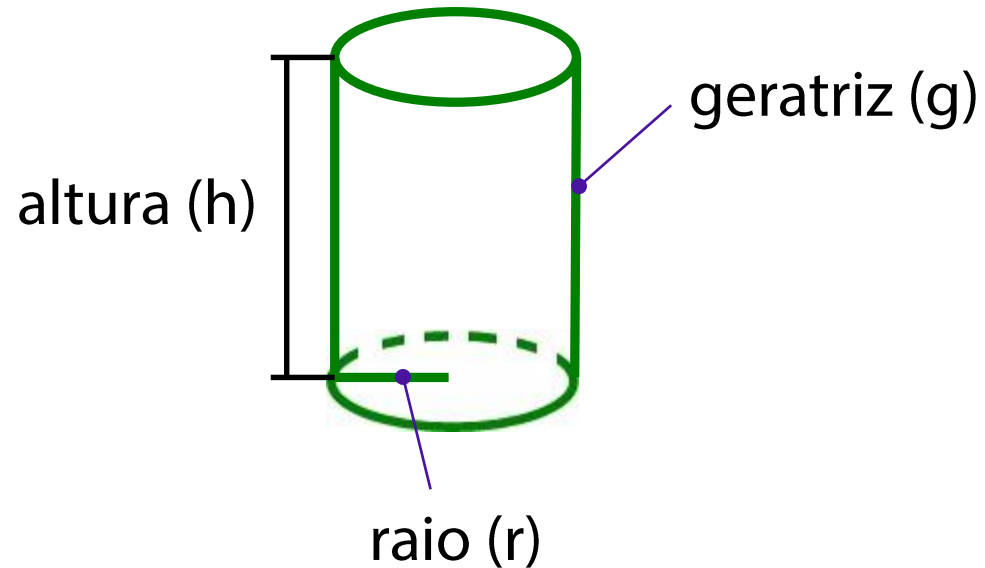
BAIANO



Definição

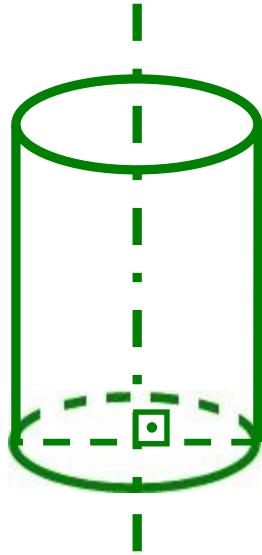
Sólido definido por duas bases circulares paralelas e congruentes.

Elementos de um Cilindro



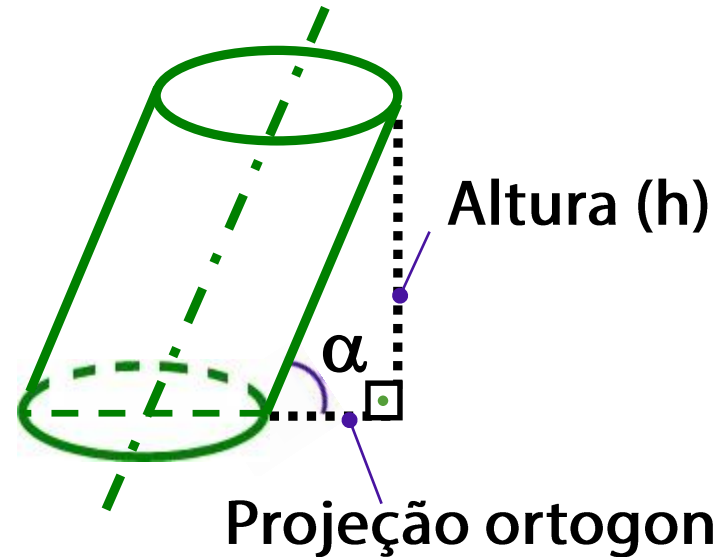
Classificação

Cilindro Reto



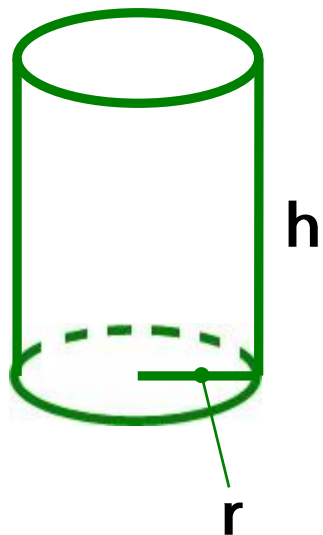
O eixo é perpendicular
as bases.

Cilindro Oblíquo



A geratriz não coincide com
a altura.

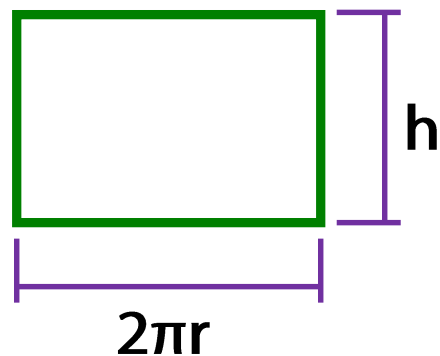
Áreas e Volume de um Cilindro



Área da Base

$$A_b = \pi \cdot r^2$$

Área Lateral



$$A_\ell = 2 \cdot \pi \cdot r \cdot h$$

Área Total

$$A_t = 2A_b + A_\ell$$

$$A_t = 2 \cdot \pi \cdot r^2 + 2 \cdot \pi \cdot r \cdot h$$

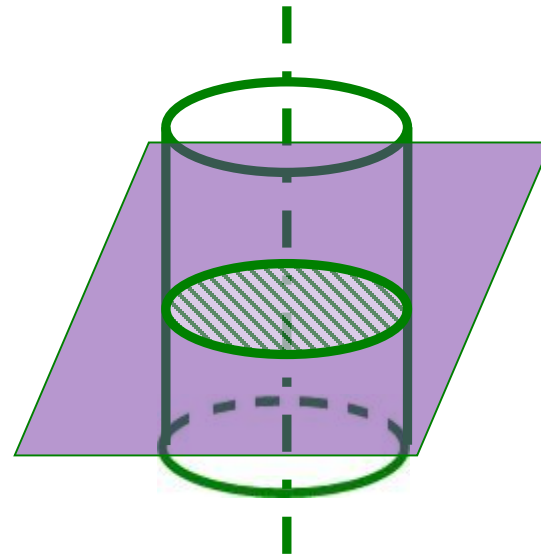
Volume

$$V = A_b \cdot h$$

$$V = \pi \cdot r^2 \cdot h$$

Secção Transversal

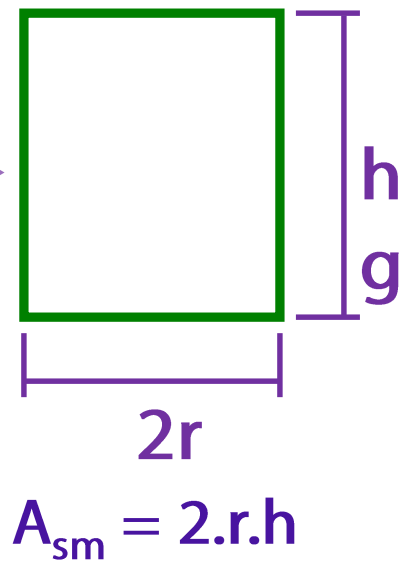
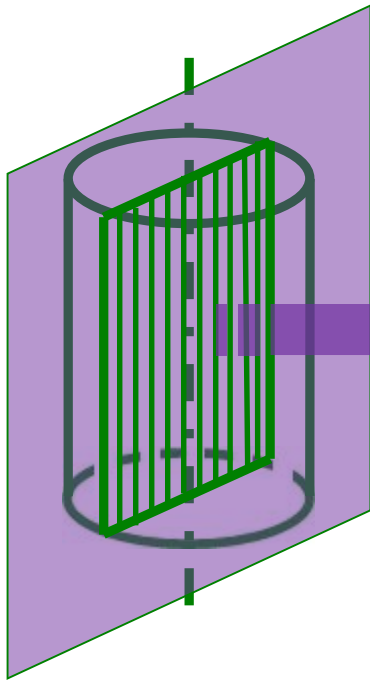
Secção Transversal
Corte paralelo a base



$$A_{st} = A_b$$

Secção Meridiana

Corte que passa pelo eixo



=

Cilindro Equilátero

$$g = 2r$$