

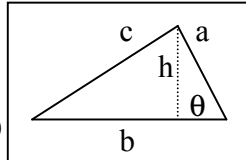
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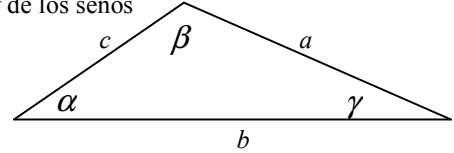
FORMULAS DE GEOMETRIA – Prof. José Barreto. Tel. (0251)2612905

Triángulo

$h = a \text{ sen } \theta$
 Area = $\frac{1}{2} bh$
 (teorema del coseno)
 $c^2 = a^2 + b^2 - 2ab \text{ cos } \theta$



Ley de los senos

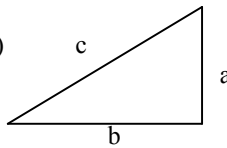


$$\frac{a}{\text{sen } \alpha} = \frac{b}{\text{sen } \beta} = \frac{c}{\text{sen } \gamma}$$

Triángulo rectángulo

(Teorema de Pitágoras)

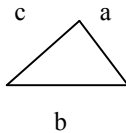
$$c^2 = a^2 + b^2$$



Triángulo equilátero

$p' =$ semiperímetro =

$$= \frac{a + b + c}{2}$$

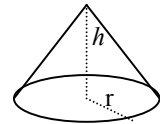


$$\text{Area} = \sqrt{p'(p'-a)(p'-b)(p'-c)}$$

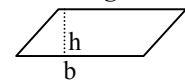
Cono

A = área de la base

$$V = \frac{Ah}{3} = \frac{\pi r^2 h}{3}$$

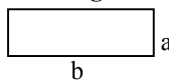


Paralelogramo



$$\text{Area} = bh$$

Rectángulo



$$\text{Area} = ba$$

Cilindro

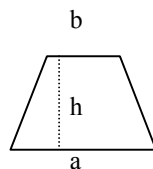
$$V = \pi r^2 h$$



$$\text{Area lateral} = 2\pi r h$$

Trapezio

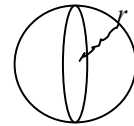
$$\text{Area} = \frac{h}{2}(a + b)$$



Esfera

$$V = \frac{4}{3} \pi r^3$$

$$\text{Area (superficie): } 4\pi r^2$$

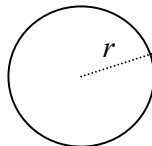


Círculo

$$\text{Area} = \pi r^2$$

Longitud de la

$$\text{Circunferencia} = 2\pi r$$



Sector circular

(θ en radianes)

$$\text{Area} = \frac{\theta}{2} r^2 \quad s = r\theta$$

