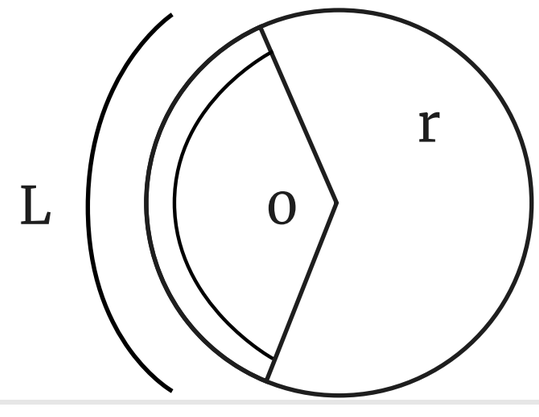
Perímetros, áreas y volúmenes

Sector Circular, Elipse, Esfera, Cuboide, Cilindro, Cono, Toro

Sector Circular

$$A = \frac{0}{2} r^2 = \frac{rL}{2}$$

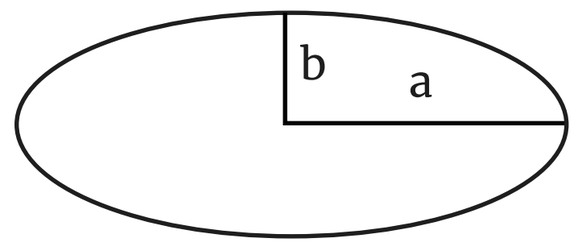
$$P = 2rL$$



Elipse

$$A = \pi ab$$

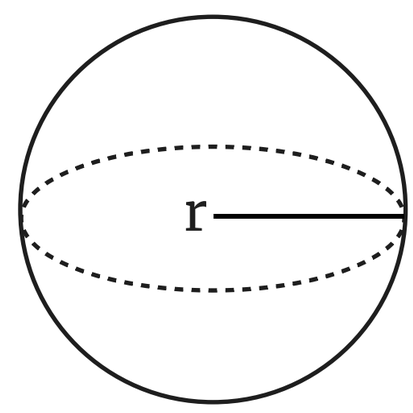
$$P = \pi \left[\frac{3}{2} (a+b) - \sqrt{ab} \right]$$



Esfera

$$P = 4\pi r^2 = \pi d^2$$

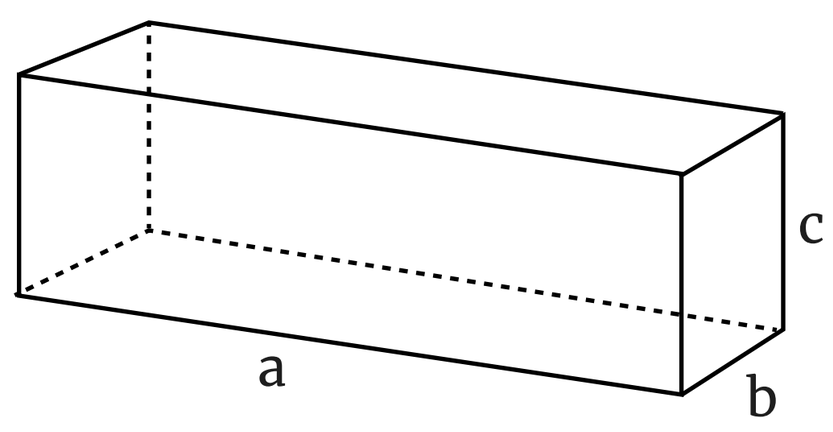
$$V = \frac{4}{3} \pi r^3$$



Cuboide

$$A = 2\pi r(r + h)$$

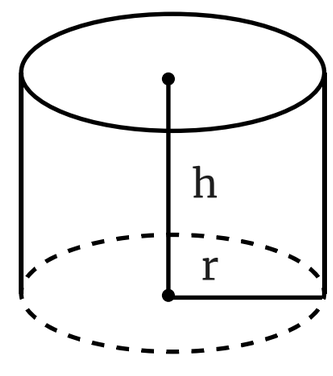
$$V = \pi h r^2$$



Cilindro

$$P = 2\pi r\ (r+h)$$

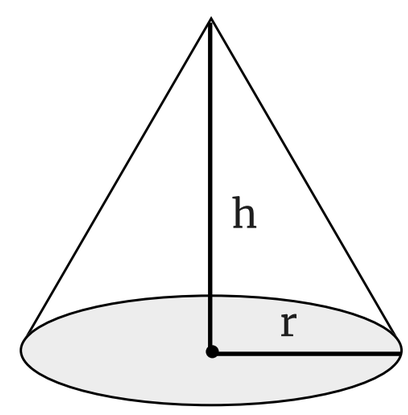
$$V = \pi h r^2$$



Cono

$$A = \pi r\ (r+\sqrt{r^2+h^2})$$

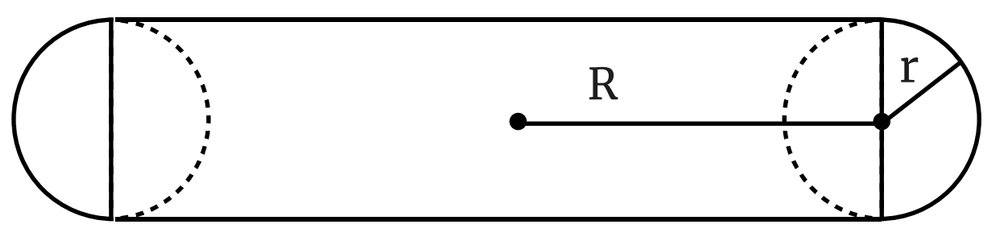
$$V = \frac{1}{3} \pi h r^2$$



Toro

$$A = 4r^2 \circ R \circ r$$

$$V = 2r^2 \circ R \circ r^2$$



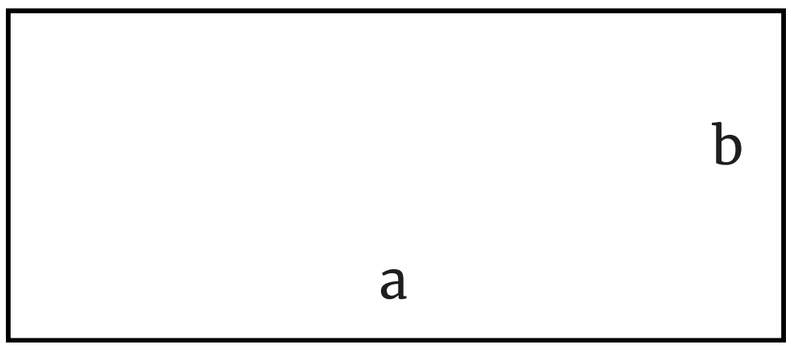
Perímetros, áreas y volúmenes

Rectágulo, Triángulo, Triángulo isósceles, Triángulo regular

Rectángulo

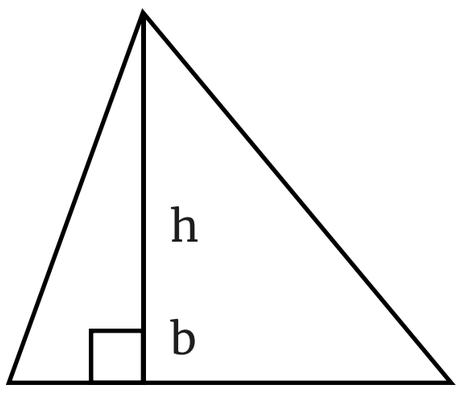
$A = ab$

$P = 2(a+b)$



Triángulo

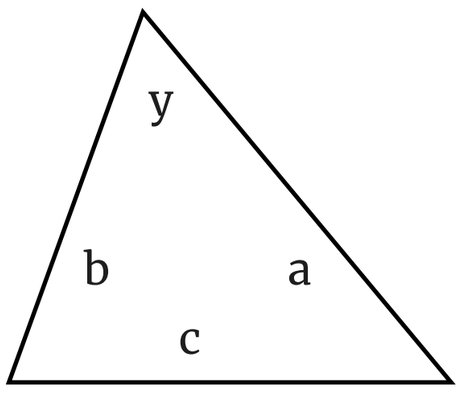
$A = \frac{1}{2} bh$



Triángulo

$A = \frac{1}{2} ab \circ \sin(y)$

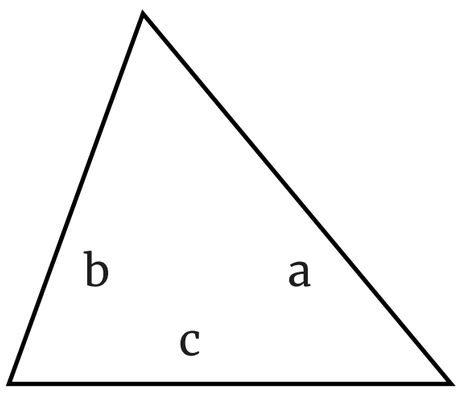
$P = a + b + c$



Triángulo

$A = \sqrt{s(s-a)(s-b)(s-c)}$

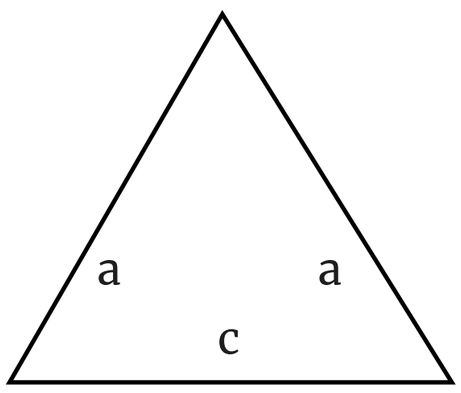
$s = \frac{1}{2}(a+b+c)$



Triángulo Isósceles

$A = \frac{C}{4} \sqrt{4a^2 - c^2}$

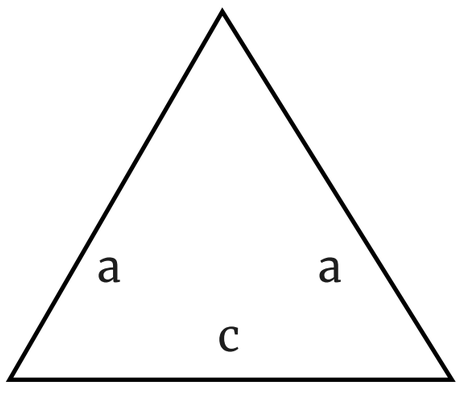
$P = 2a + c$



Triángulo Regular

$A = \frac{\sqrt{3}}{4} a^2$

$P = 3a$



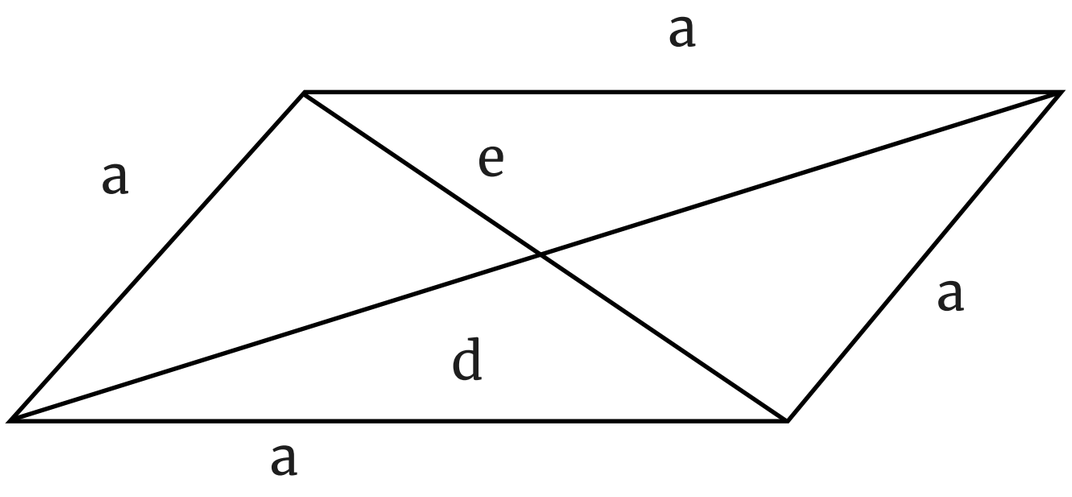
Perímetros, áreas y volúmenes

Rombo, Paralelogramo, Trapezoide, Hexágono Regular, Octógno Regular y Círculo

Rombo

$$A = \frac{1}{2} de$$

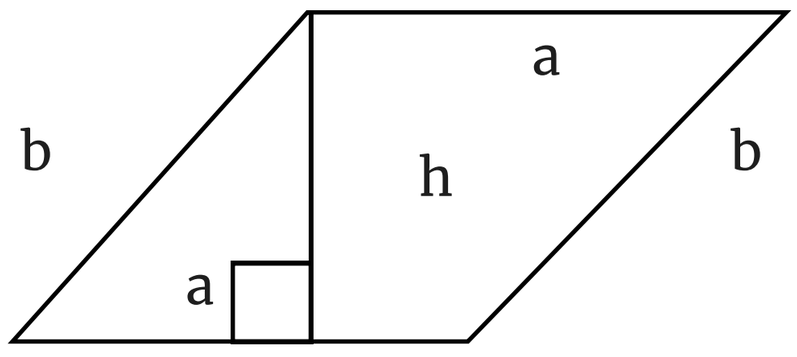
$$P = 4a$$



Paralelogramo

$$A = ah_a$$

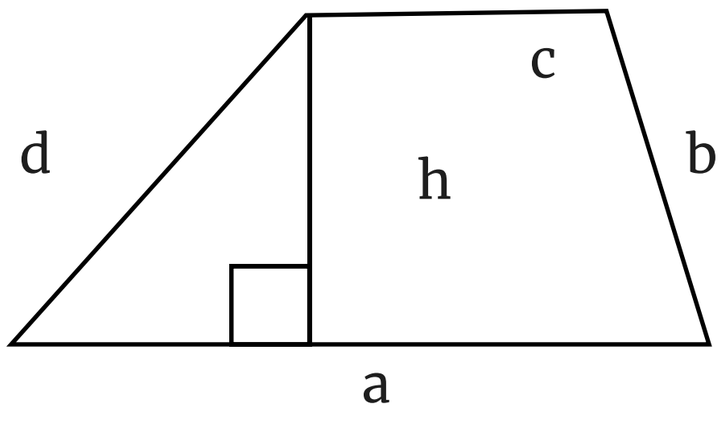
$$P = 2(a+b)$$



Trapezoide

$$A = \frac{(a + c)\, h}{2}$$

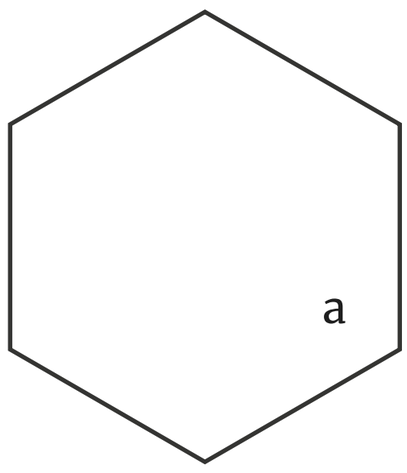
$$P = a + b + c + d$$



Hexágono Regular

$$P=6a$$

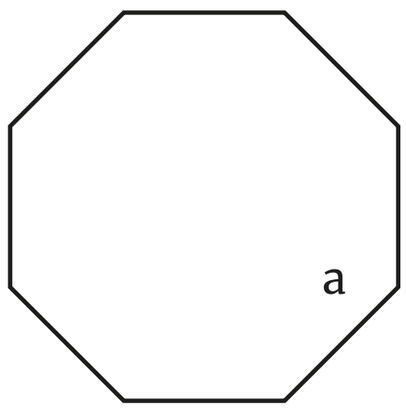
$$A = \frac{3}{2} \sqrt{3}a^2$$



Octógono Regular

$$A = 2\,(1+\sqrt{2})\; a^2$$

$$P = 8a$$



Círculo

$$A = \pi r^2 = \frac{\pi d^2}{4} \quad d = 2r$$

$$P = 2\pi r$$