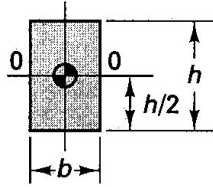


TABLA PROPIEDADES ÚTILES DE ÁREAS

Áreas y momentos de inercia de áreas respecto a ejes centroidales

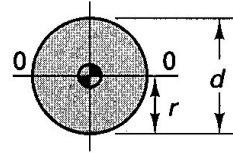
RECTÁNGULO



$$A = bh$$

$$I_o = bh^3/12$$

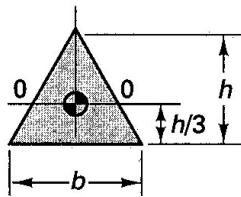
CÍRCULO



$$A = \pi R^2$$

$$I_o = I_p/2 = \pi R^4/4$$

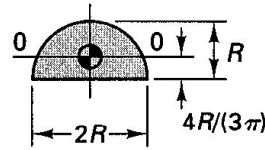
TRIÁNGULO



$$A = bh/2$$

$$I_o = bh^3/36$$

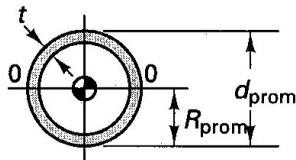
SEMICÍRCULO



$$A = \pi R^2/2$$

$$I_o = 0.110R^4$$

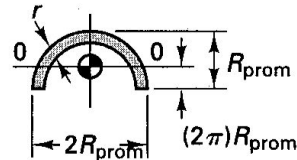
TUBO DELGADO



$$A = 2\pi R_{prom}t$$

$$I_o = I_p/2 \approx \pi R_{prom}^3t$$

MEDIO TUBO DELGADO

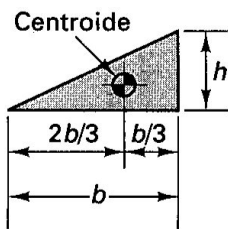


$$A = \pi R_{prom}t$$

$$I_o \approx 0.095\pi R_{prom}^3t$$

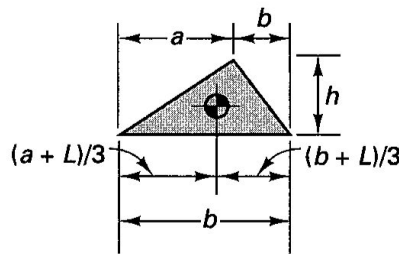
Áreas y centroides de áreas

TRIÁNGULO



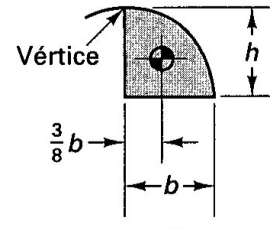
$$A = bh/2$$

TRIÁNGULO



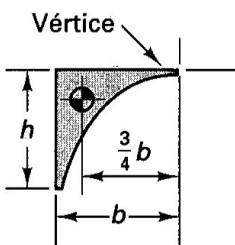
$$A = hL/2$$

PARÁBOLA



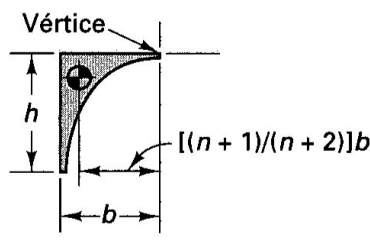
$$A = \frac{2}{3}bh$$

PARÁBOLA: $y = -ax^2$



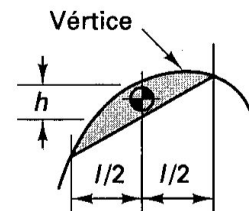
$$A = bh/3$$

$y = -ax^n$



$$A = bh/(n + 1)$$

PARÁBOLA



El área de cualquier segmento de una parábola es $A = \frac{2}{3}hl$