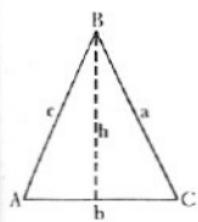


TRIÂNGULO

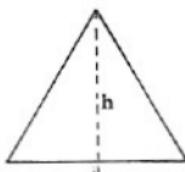
$$S = \sqrt{p(p-a)(p-b)(p-c)}$$



$$= \frac{bh}{2} = \frac{bc}{2} \operatorname{sen} A$$

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

TRIÂNGULO EQUILÁTERO

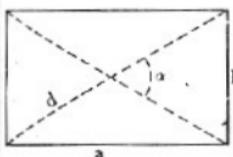


$$h = \frac{a\sqrt{3}}{2}$$

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

RECTÂNGULO

$$d = \sqrt{a^2 + b^2}$$



$$S = ab$$

$$= \frac{d^2}{2} \operatorname{sen} \alpha$$

QUADRADO

$$d = a\sqrt{2}$$

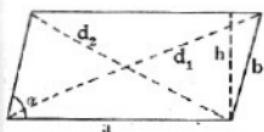


$$S = a^2$$

$$= \frac{d^2}{2}$$

PARALELOGRAMO

$$d_1 = \sqrt{(a + h \cot \alpha)^2 + h^2}$$



$$S = ah$$

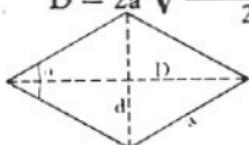
$$= ab \operatorname{sen} \alpha$$

$$d_2 = \sqrt{(a - h \cot \alpha)^2 + h^2}$$

LOSANGO

$$d = 2a \sqrt{\frac{1 - \cos \alpha}{2}}$$

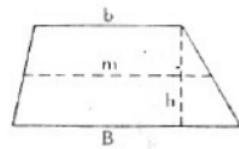
$$D = 2a \sqrt{\frac{1 + \cos \alpha}{2}}$$



$$S = \frac{dD}{2}$$

$$= a^2 \operatorname{sen} \alpha$$

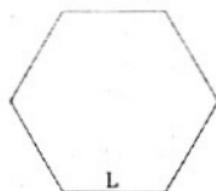
TRAPÉZIO



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

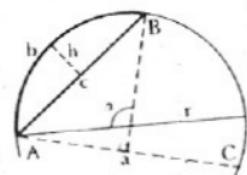
$$\begin{aligned} S &= mh \\ &= \frac{b + B}{2} h \end{aligned}$$

HEXÁGONO REGULAR



$$S = \frac{3\sqrt{3}}{2} L^2$$

SEGMENTO CIRCULAR



$$S = r^2 \left(\frac{\pi \alpha}{360} - \frac{\sin \alpha}{2} \right)$$

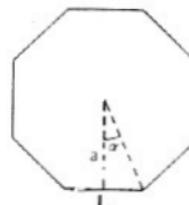
$$\begin{aligned} b &= br - c(r-h) \\ &= \frac{r}{2} \left(b - \frac{a}{2} \right) \end{aligned}$$

$$\text{arc } AB = b$$

$$AB = c = 2\sqrt{2hr - h^2}$$

$$AC = a$$

POLÍGONO REGULAR (n lados)



$$\alpha = \frac{180}{n}$$

$$S = \frac{nL}{2} a$$

$$= \frac{nL^2}{4} \cot \alpha$$

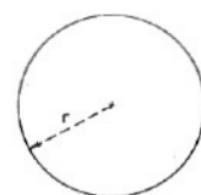
CÍRCULO

$$p = 2\pi r$$

$$d = 2r$$

$$S = \pi r^2$$

$$= \frac{\pi d^2}{4}$$



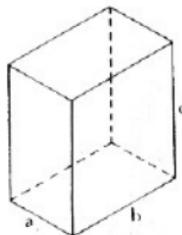
SECTOR CIRCULAR



$$S = \frac{\pi r^2 \alpha}{360}$$

$$= \frac{r}{2} \text{arc } \alpha$$

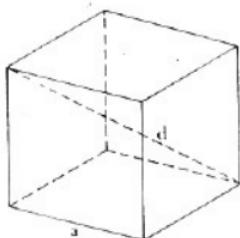
PARALELEPÍPEDO RECTÂNGULO



$$S_1 = 2c(a + b)$$

$$S_t = 2(ab + ac + bc)$$

CUBO



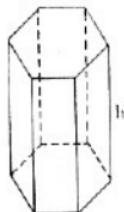
$$S_1 = 4a^2$$

$$= \frac{4d^2}{3}$$

$$S_t = 6a^2$$

$$= 2d^2$$

PRISMA RECTO



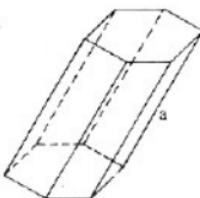
$$S_1 = ph$$

$$S_t = ph + 2S_b$$

S_b — área da base

p — perímetro da base

PRISMA OBLÍQUO



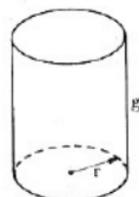
$$S_1 = ap$$

$$S_t = ap + 2S_b$$

p — perímetro da secção recta

S_b — área da base

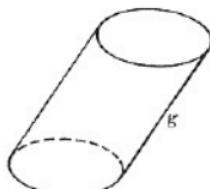
CILINDRO DE REVOLUÇÃO



$$S_1 = 2\pi rg$$

$$S_t = 2\pi r(g + r)$$

CILINDRO OBLÍQUO



$$S_1 = pg$$

$$S_t = pg + 2S_b$$

p — perímetro de uma secção recta

S_b — área de uma base