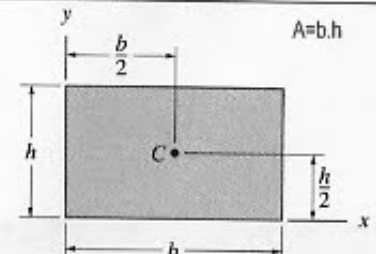
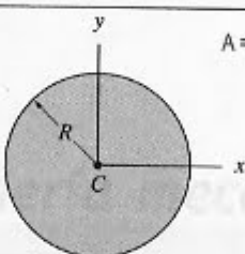
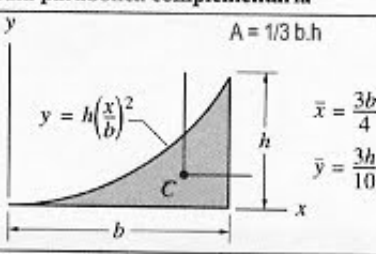
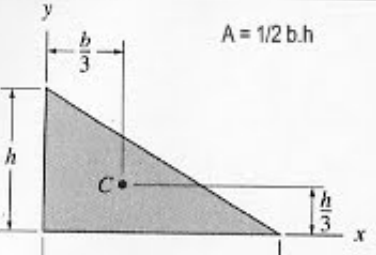
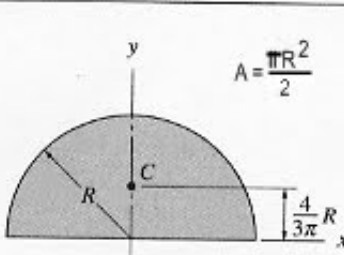
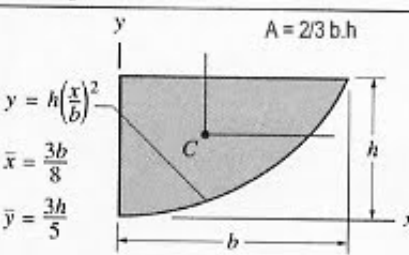
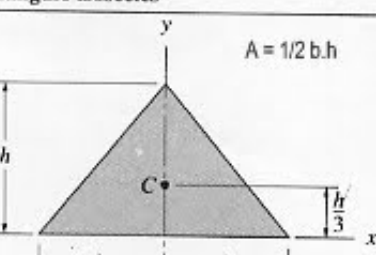
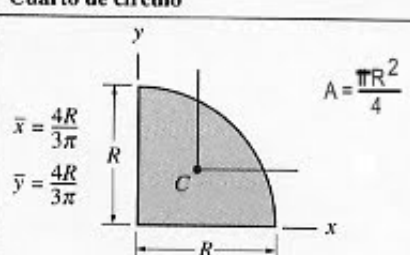
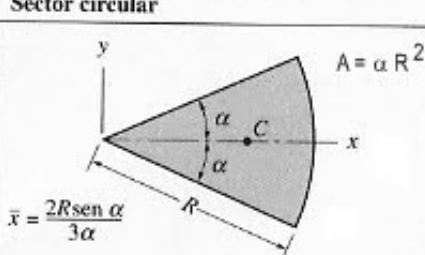
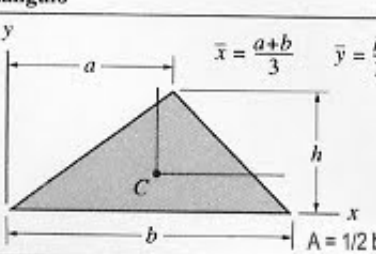
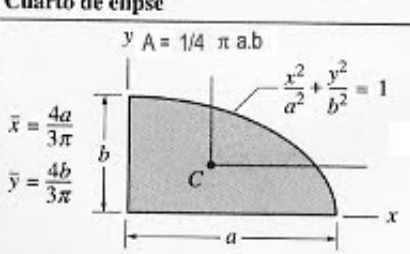


Área momento de inercia

Rectángulo  $A = b.h$ $\bar{I}_x = \frac{bh^3}{12}$ $\bar{I}_y = \frac{b^3h}{12}$ $\bar{I}_{xy} = 0$ $I_x = \frac{bh^3}{3}$ $I_y = \frac{b^3h}{3}$ $I_{xy} = \frac{b^2h^2}{4}$	Círculo  $A = \pi R^2$ $I_x = I_y = \frac{\pi R^4}{4}$ $I_{xy} = 0$	Media parabólica complementaria  $A = \frac{1}{3} b.h$ $\bar{x} = \frac{3b}{4}$ $\bar{y} = \frac{3h}{10}$ $\bar{I}_x = \frac{37bh^3}{2100}$ $I_x = \frac{bh^3}{21}$ $\bar{I}_y = \frac{b^3h}{80}$ $I_y = \frac{b^3h}{5}$ $\bar{I}_{xy} = \frac{b^2h^2}{120}$ $I_{xy} = \frac{b^2h^2}{12}$
Triángulo rectángulo  $A = \frac{1}{2} b.h$ $\bar{I}_x = \frac{bh^3}{36}$ $\bar{I}_y = \frac{b^3h}{36}$ $\bar{I}_{xy} = -\frac{b^2h^2}{72}$ $I_x = \frac{bh^3}{12}$ $I_y = \frac{b^3h}{12}$ $I_{xy} = \frac{b^2h^2}{24}$	Semicírculo  $A = \frac{\pi R^2}{2}$ $\bar{I}_x = 0.1098R^4$ $\bar{I}_{xy} = 0$ $I_x = I_y = \frac{\pi R^4}{8}$ $I_{xy} = 0$	Media parábola  $A = \frac{2}{3} b.h$ $\bar{x} = \frac{3b}{8}$ $\bar{y} = \frac{3h}{5}$ $\bar{I}_x = \frac{8bh^3}{175}$ $I_x = \frac{2bh^3}{7}$ $\bar{I}_y = \frac{19b^3h}{480}$ $I_y = \frac{2b^3h}{15}$ $\bar{I}_{xy} = \frac{b^2h^2}{60}$ $I_{xy} = \frac{b^2h^2}{6}$
Triángulo isósceles  $A = \frac{1}{2} b.h$ $\bar{I}_x = \frac{bh^3}{36}$ $\bar{I}_y = \frac{b^3h}{48}$ $\bar{I}_{xy} = 0$ $I_x = \frac{bh^3}{12}$ $I_{xy} = 0$	Cuarto de círculo  $A = \frac{\pi R^2}{4}$ $\bar{x} = \frac{4R}{3\pi}$ $\bar{y} = \frac{4R}{3\pi}$ $\bar{I}_x = \bar{I}_y = 0.05488R^4$ $I_x = I_y = \frac{\pi R^4}{16}$ $\bar{I}_{xy} = -0.01647R^4$ $I_{xy} = \frac{R^4}{8}$	Sector circular  $A = \alpha R^2$ $\bar{x} = \frac{2R \text{sen } \alpha}{3\alpha}$ $I_x = \frac{R^4}{8} (2\alpha - \text{sen } 2\alpha)$ $I_y = \frac{R^4}{8} (2\alpha + \text{sen } 2\alpha)$ $I_{xy} = 0$
Triángulo  $\bar{x} = \frac{a+b}{3}$ $\bar{y} = \frac{h}{3}$ $A = \frac{1}{2} b.h$ $\bar{I}_x = \frac{bh^3}{36}$ $I_x = \frac{bh^3}{12}$ $\bar{I}_y = \frac{bh}{36} (a^2 - ab + b^2)$ $I_y = \frac{bh}{12} (a^2 + ab + b^2)$ $\bar{I}_{xy} = \frac{bh^2}{72} (2a - b)$ $I_{xy} = \frac{bh^2}{24} (2a + b)$	Cuarto de elipse  $A = \frac{1}{4} \pi a.b$ $\bar{x} = \frac{4a}{3\pi}$ $\bar{y} = \frac{4b}{3\pi}$ $\bar{I}_x = 0.05488ab^3$ $I_x = \frac{\pi ab^3}{16}$ $\bar{I}_y = 0.05488a^3b$ $I_y = \frac{\pi a^3b}{16}$ $\bar{I}_{xy} = -0.01647a^2b^2$ $I_{xy} = \frac{a^2b^2}{8}$	