



SECCIÓN	BARICENTRO / ÁREA	MOMENTOS DE INERCIA Y MOMENTOS CENTRIFUGOS	
	$x_g = \frac{h}{2}$	$J_x = \frac{h^4}{3}$	$J_{xg} = \frac{h^4}{12}$
	$y_g = \frac{h}{2}$	$J_y = \frac{h^4}{3}$	$J_{yg} = \frac{h^4}{12}$
	$F = h^2$	$J_{xy} = \frac{h^4}{4}$	$J_{xyg} = 0$
	$x_g = \frac{b}{2}$	$J_x = \frac{b \cdot h^3}{3}$	$J_{xg} = \frac{b \cdot h^3}{12}$
	$y_g = \frac{h}{2}$	$J_y = \frac{b^3 \cdot h}{3}$	$J_{yg} = \frac{b^3 \cdot h}{12}$
	$F = b \cdot h$	$J_{xy} = \frac{b^2 \cdot h^2}{4}$	$J_{xyg} = 0$
	$x_g = \frac{b}{3}$	$J_x = \frac{b \cdot h^3}{12}$	$J_{xg} = \frac{b \cdot h^3}{36}$
	$y_g = \frac{h}{3}$	$J_y = \frac{b^3 \cdot h}{12}$	$J_{yg} = \frac{b^3 \cdot h}{36}$
	$F = \frac{b \cdot h}{2}$	$J_{xy} = \frac{b^2 \cdot h^2}{24}$	$J_{xyg} = \frac{-b^2 \cdot h^2}{72}$
	$x_g = \frac{b}{2}$	$J_x = \frac{b \cdot h^3}{12}$	$J_{xg} = \frac{b \cdot h^3}{36}$
	$y_g = \frac{h}{3}$	$J_y = \frac{7 \cdot b^3 \cdot h}{48}$	$J_{yg} = \frac{b^3 \cdot h}{48}$
	$F = \frac{b \cdot h}{2}$	$J_{xy} = \frac{b^2 \cdot h^2}{12}$	$J_{xyg} = 0$
	$x_g = \frac{b}{2}$	$J_x = \frac{7 \cdot b \cdot h^3}{48}$	$J_{xg} = \frac{b \cdot h^3}{48}$
	$y_g = \frac{h}{2}$	$J_y = \frac{7 \cdot b^3 \cdot h}{48}$	$J_{yg} = \frac{b^3 \cdot h}{48}$
	$F = \frac{b \cdot h}{2}$	$J_{xy} = \frac{b^2 \cdot h^2}{8}$	$J_{xyg} = 0$
	$x_g = \frac{a}{2}$	$J_x = \frac{h^3}{12} \cdot \frac{a^2 + 4ab + 3b^2}{a + b}$	$J_{xg} = \frac{h^3}{36} \cdot \frac{a^2 + 4ab + b^2}{a + b}$
	$y_g = \frac{h}{3} \cdot \frac{a + 2b}{a + b}$	$J_y = \frac{h}{48} \cdot (7a^3 + 7a^2b + a \cdot b^2 + b^3)$	$J_{yg} = \frac{h}{48} \cdot (a^3 + a^2b + a \cdot b^2 + b^3)$
	$F = \frac{h}{2} \cdot (a + b)$	$J_{xy} = \frac{h^2}{12} \cdot (a^2 + 2ab)$	$J_{xyg} = 0$



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	$x_g = r$	$J_x = \frac{207 \cdot \sqrt{3} \cdot r^4}{144}$	$J_{xg} = \frac{45 \cdot \sqrt{3} \cdot r^4}{144}$
	$y_g = \frac{\sqrt{3} \cdot r}{2}$	$J_y = \frac{261 \cdot \sqrt{3} \cdot r^4}{144}$	$J_{yg} = \frac{45 \cdot \sqrt{3} \cdot r^4}{144}$
	$F = \frac{3\sqrt{3}}{2} \cdot r^2$	$J_{xy} = \frac{9 \cdot r^4}{4}$	$J_{xyg} = 0$
	$x_g = r$	$J_x = \frac{5 \pi r^4}{4} = \frac{5 \pi D^4}{64}$	$J_{xg} = \frac{\pi r^4}{4} = \frac{\pi D^4}{64}$
	$y_g = r$	$J_y = \frac{5 \pi r^4}{4} = \frac{5 \pi D^4}{64}$	$J_{yg} = \frac{\pi r^4}{4} = \frac{\pi D^4}{64}$
	$F = \pi r^2 = \frac{\pi D^2}{4}$	$J_{xy} = \pi r^4 = \frac{\pi D^4}{16}$	$J_{xyg} = 0$
	$x_g = r$	$J_x = \frac{\pi r^4}{8} = \frac{\pi D^4}{128}$	$J_{xg} = r^4 \cdot \left(\frac{\pi}{8} - \frac{8}{9\pi} \right)$
	$y_g = \frac{4r}{3\pi}$	$J_y = \frac{5 \pi r^4}{8} = \frac{5 \pi D^4}{128}$	$J_{yg} = \frac{\pi r^4}{8} = \frac{\pi D^4}{128}$
	$F = \frac{\pi r^2}{2} = \frac{\pi D^2}{8}$	$J_{xy} = \frac{2r^4}{3}$	$J_{xyg} = 0$
	$x_g = \frac{4r}{3\pi}$	$J_x = \frac{\pi r^4}{16} = \frac{\pi D^4}{256}$	$J_{xg} = r^4 \cdot \left(\frac{\pi}{16} - \frac{4}{9\pi} \right)$
	$y_g = \frac{4r}{3\pi}$	$J_y = \frac{\pi r^4}{16} = \frac{\pi D^4}{256}$	$J_{yg} = r^4 \cdot \left(\frac{\pi}{16} - \frac{4}{9\pi} \right)$
	$F = \frac{\pi r^2}{4} = \frac{\pi D^2}{16}$	$J_{xy} = \frac{r^4}{8}$	$J_{xyg} = r^4 \cdot \left(\frac{1}{8} - \frac{4}{9\pi} \right)$
	$x_g = \frac{2}{3} \cdot \frac{r \cdot \text{seno}(\alpha)}{\alpha}$	$J_x = \frac{r^4}{4} \cdot \left(\alpha - \frac{\text{seno}(2\alpha)}{2} \right)$	$J_{xg} = \frac{r^4}{4} \cdot \left(\alpha - \frac{\text{seno}(2\alpha)}{2} \right)$
	$y_g = 0$	$J_y = \frac{r^4}{4} \cdot \left(\alpha + \frac{\text{seno}(2\alpha)}{2} \right)$	$J_{yg} = r^4 \cdot \left[\frac{\alpha}{4} + \frac{\text{seno}(2\alpha)}{8} - \frac{4 \text{seno}^2(\alpha)}{9\alpha} \right]$
	$F = \alpha \cdot r^2$	$J_{xy} = 0$	$J_{xyg} = 0$
	$x_g = R$	$J_x = \frac{\pi}{4} \cdot (5R^4 - 4R^2 \cdot r^2 - r^4)$	$J_{xg} = \frac{\pi}{4} \cdot (R^4 - r^4)$
	$y_g = R$	$J_y = \frac{\pi}{4} \cdot (5R^4 - 4R^2 \cdot r^2 - r^4)$	$J_{yg} = \frac{\pi}{4} \cdot (R^4 - r^4)$
	$F = \pi (R^2 - r^2)$	$J_{xy} = \pi R^2 \cdot (R^2 - r^2)$	$J_{xyg} = 0$