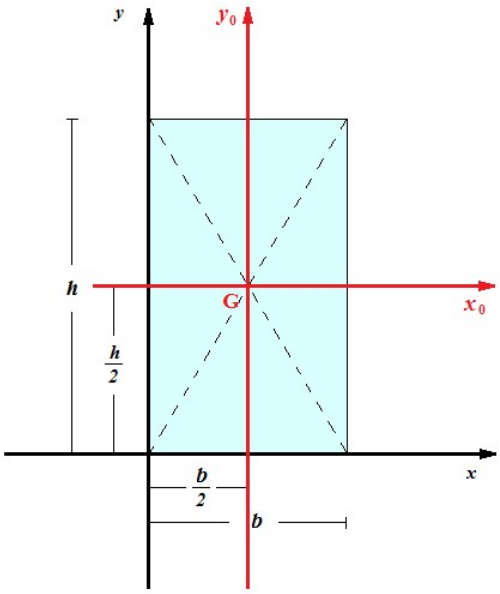
Riassumendo quindi le principali formule delle figure geometriche piane

RETTANGOLO



$$G = \left(\frac{b}{2}, \frac{h}{2}\right) \qquad A = bh$$

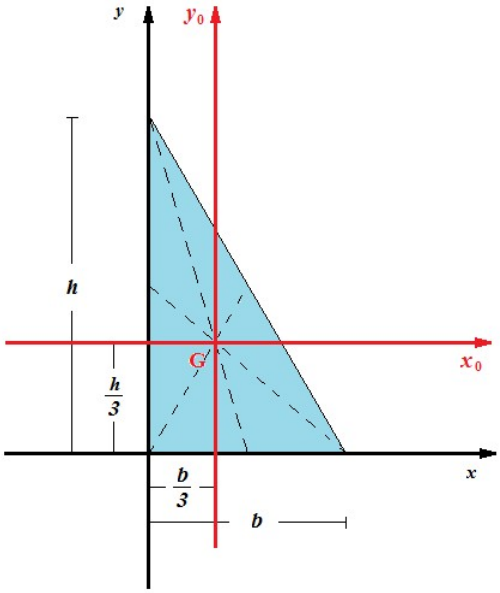
$$S_x = \frac{bh^2}{2} \qquad S_y = \frac{b^2 h}{2}$$

$$S_{x_0} = 0 \qquad S_{y_0} = 0$$

$$J_x = \frac{bh^3}{3} \qquad J_y = \frac{b^3 h}{3} \qquad J_{xy} = \frac{b^2 h^2}{4}$$

$$J_{x_0} = \frac{bh^3}{12} \qquad J_{y_0} = \frac{b^3 h}{12} \qquad J_{x_0 y_0} = 0$$

TRIANGOLO RETTANGOLO



$$G = \left(\frac{b}{3}, \frac{h}{3}\right) \qquad A = \frac{bh}{2}$$

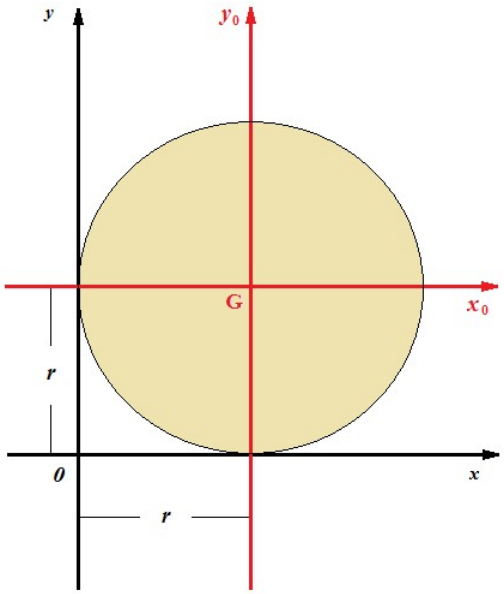
$$S_x = \frac{bh^2}{6} \qquad S_y = \frac{b^2 h}{6}$$

$$S_{x_0} = 0 \qquad S_{y_0} = 0$$

$$J_x = \frac{bh^3}{12} \qquad J_y = \frac{b^3 h}{12} \qquad J_{xy} = \frac{b^2 h^2}{24}$$

$$J_{x_0} = \frac{bh^3}{36} \qquad J_{y_0} = \frac{b^3 h}{36} \qquad J_{x_0 y_0} = -\frac{b^2 h^2}{72}$$

CERCHIO



$G = (r, r)$ $\quad A = \pi r^2$

$S_x = S_y = \pi r^3$

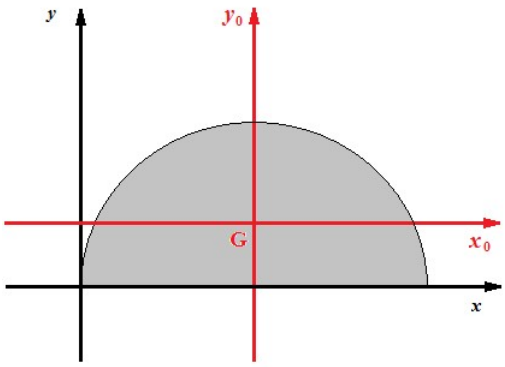
$S_{x_0} = 0$ $\quad S_{y_0} = 0$

$J_x = J_y = \frac{5}{4}\pi r^4$ $\quad J_{xy} = \pi r^4$

$J_{x_0} = J_{y_0} = \frac{\pi r^4}{4}$ $\quad J_{x_0 y_0} = 0$

$J_G = \frac{\pi r^4}{2}$ $\quad J_0 = \frac{5}{2}\pi r^4$

SEMICERCHIO



$G = (r, \frac{4r}{3\pi})$ $\quad A = \frac{\pi r^2}{2}$

$S_x = \frac{2\pi r^3}{3}$ $\quad S_y = \frac{\pi r^3}{2}$

$S_{x_0} = 0$ $\quad S_{y_0} = 0$

$J_x = \frac{\pi r^4}{8}$ $\quad J_y = \frac{5\pi r^4}{8}$ $\quad J_{xy} = \frac{2\pi r^4}{3}$

$J_{x_0} = \frac{(9\pi^2 - 8) r^4}{72\pi}$ $\quad J_{y_0} = \frac{\pi r^4}{8}$ $\quad J_{x_0 y_0} = 0$

$J_G = \frac{(9\pi^2 - 4) r^4}{36\pi}$