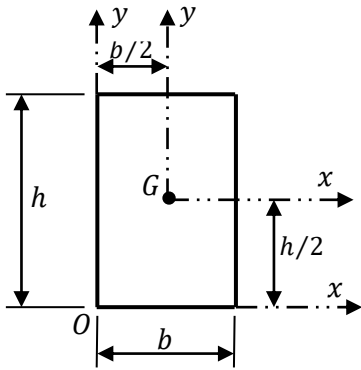


Rectangle:



$$I_x = \frac{bh^3}{3}$$

$$I_y = \frac{hb^3}{3}$$

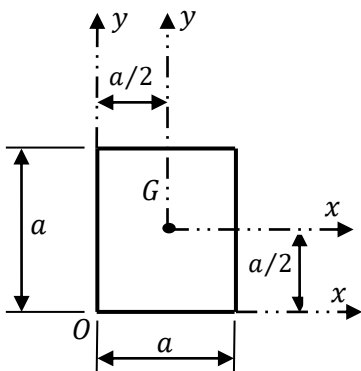
$$I_{xy} = \frac{b^2h^2}{4}$$

$$I_{Gx} = \frac{bh^3}{12}$$

$$I_{Gy} = \frac{hb^3}{12}$$

$$I_{GxGy} = 0$$

Carré:



$$I_x = \frac{a^4}{3}$$

$$I_y = \frac{a^4}{3}$$

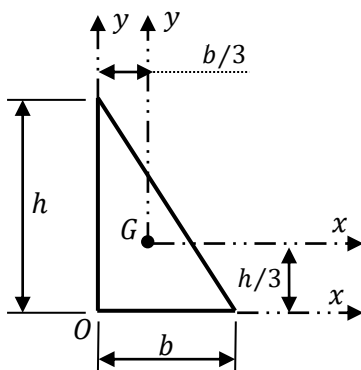
$$I_{xy} = \frac{a^4}{4}$$

$$I_{Gx} = \frac{a^4}{12}$$

$$I_{Gy} = \frac{a^4}{12}$$

$$I_{GxGy} = 0$$

Triangle:



$$I_x = \frac{bh^3}{12}$$

$$I_y = \frac{hb^3}{12}$$

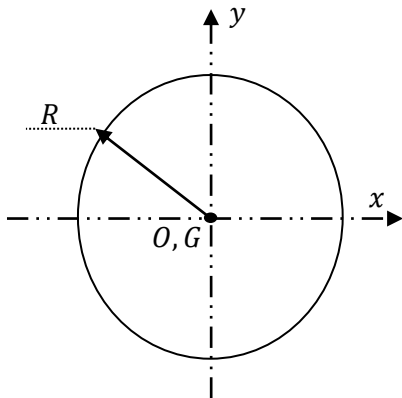
$$I_{xy} = \frac{b^2h^2}{24}$$

$$I_{Gx} = \frac{bh^3}{36}$$

$$I_{Gy} = \frac{hb^3}{36}$$

$$I_{GxGy} = -\frac{b^2h^2}{72}$$

Cercle:



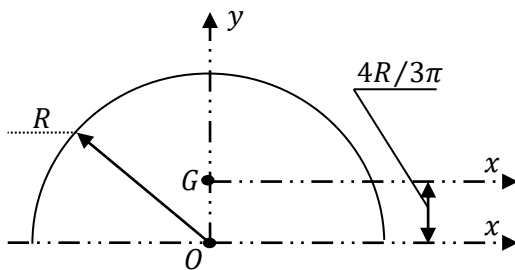
$$I_x = \frac{\pi d^4}{64} \quad \text{-----} \quad I_y = \frac{\pi d^4}{64}$$

$$I_{xy} = 0$$

$$I_{Gx} = \frac{\pi d^4}{64} \quad \text{-----} \quad I_{Gy} = \frac{\pi d^4}{64}$$

$$I_{GxGy} = 0$$

Demi-cercle:



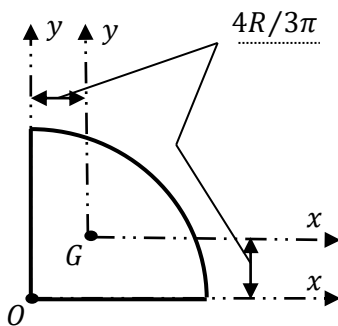
$$I_x = \frac{\pi d^4}{128} \quad \text{-----} \quad I_y = \frac{\pi d^4}{128}$$

$$I_{xy} = 0$$

$$I_{Gx} = \frac{\pi d^4}{128} - \left(\frac{4R}{3\pi}\right)^2 \frac{\pi R^2}{2} \quad \text{-----} \quad I_{Gy} = \frac{\pi d^4}{128}$$

$$I_{GxGy} = 0$$

quart-cercle:



$$I_x = \frac{\pi d^4}{256} \quad \text{-----} \quad I_y = \frac{\pi d^4}{256}$$

$$I_{xy} = \frac{R^4}{8}$$

$$I_{Gx} = \frac{\pi d^4}{256} - \left(\frac{4R}{3\pi}\right)^2 \frac{\pi R^2}{4} \quad \text{----} \quad I_{Gy} = \frac{\pi d^4}{256} - \left(\frac{4R}{3\pi}\right)^2 \frac{\pi R^2}{4}$$

$$I_{GxGy} = \frac{R^4}{8} - \left(\frac{4R}{3\pi}\right)\left(\frac{4R}{3\pi}\right)\frac{\pi R^2}{4}$$