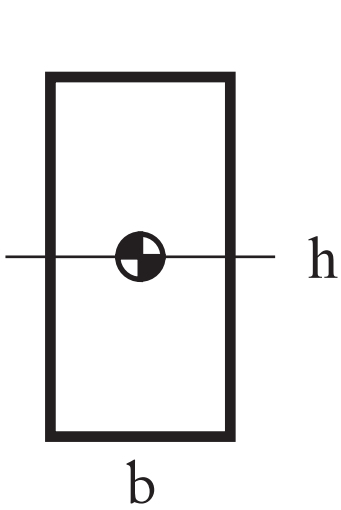
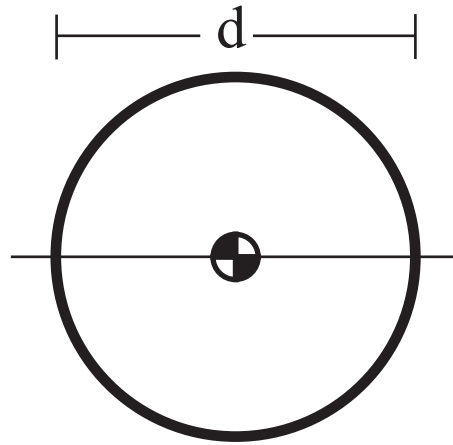


Moments of Inertia about a horizontal line through the centroid

For the circle, the polar moment of inertia is also given

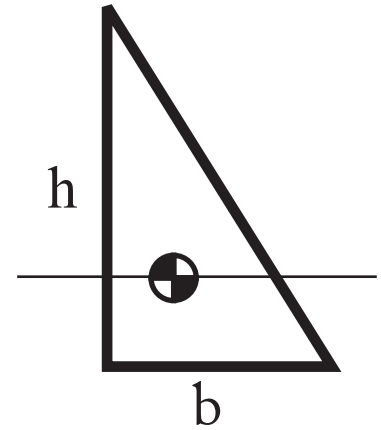


$$I = \frac{bh^3}{12}$$

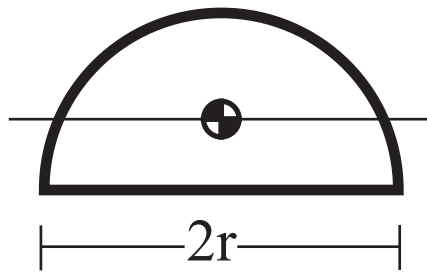


$$I = \frac{\pi d^4}{64}$$

$$I_p = \frac{\pi d^4}{32}$$



$$I = \frac{bh^3}{36}$$



$$\bar{y} = \frac{4r}{3\pi}$$

$$I_{\text{any axis}} = I_{\text{centroid}} + Ad^2$$