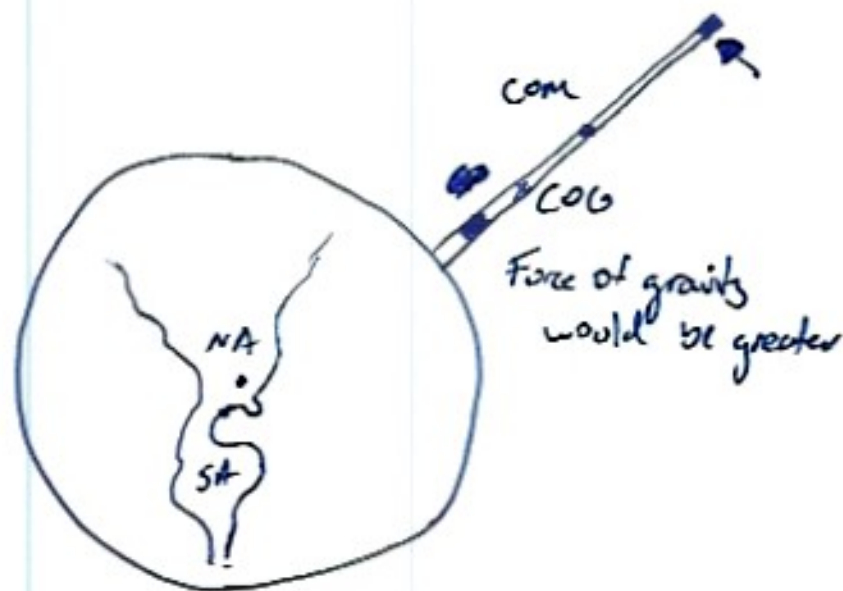


Center of Mass

Com : Point in object where all mass seems to be concentrated.

COG : Center of Gravity

Point in object where all weight seems to be concentrate.

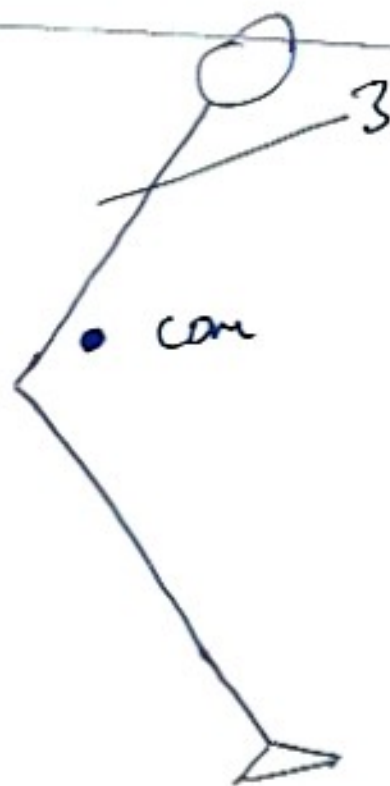
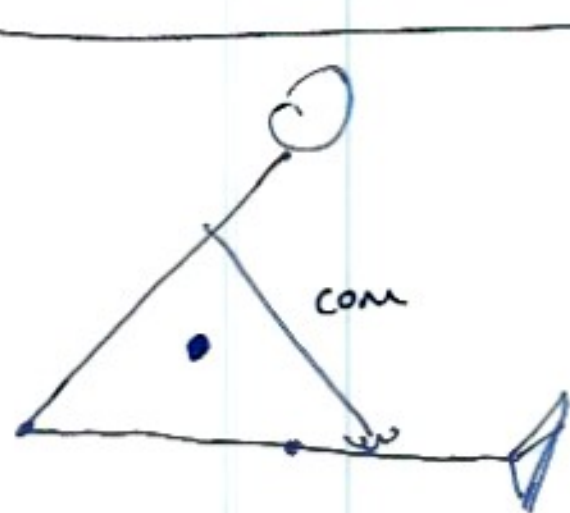
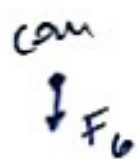


$$F_g = G \frac{m_1 m_2}{r^2}$$

COM = COG

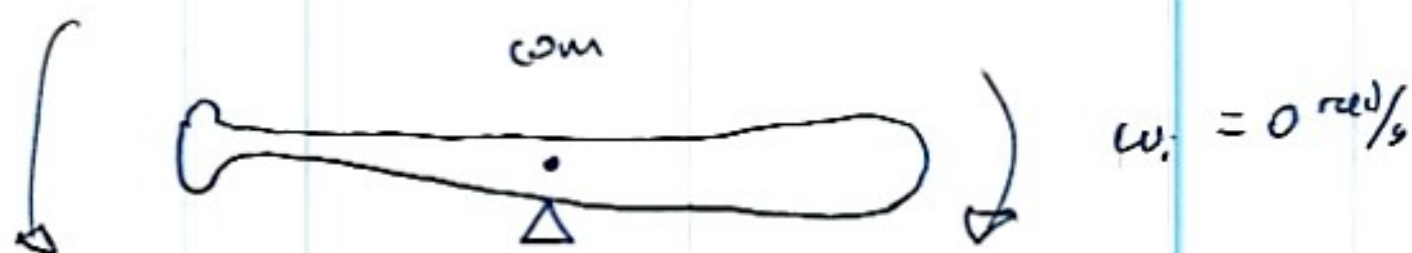


All mass
seems to be
concentrated



Does not need to be
on the object.

Not a fixed point, when
the object can change shape.



The point where $\Sigma T = I\alpha = 0 \text{ Nm}$
 as long as $\omega_i = 0 \text{ rad/s}$

