## Net Torque – Static Equilibrium

$$\Sigma \tau = r_{\perp_1} F_1 + r_{\perp_2} F_2 + \cdots$$

Draw a picture and place the forces at the spot the force acts. The force of gravity (weight  $Fg = m^*g$ ) acts at the center of the uniform object. If an object is in balance then the Torques add up to 0 N\*m and it is called Static Equilibrium. AND this also means the Net force has to be 0 N.

If the force causes a COUNTERclockwise (CCW) rotation then it is Positive. If the force causes a clockwise (CW) rotation then it is Negative.

