Newton's laws

la net force acting on an object is zero 1st then it will maintain its relocity. There are reference frames where above is true. we call them iNertial ref. frames 2nd $\vec{a} \sim \vec{F} \Rightarrow \vec{a} = \frac{\vec{F}_{net}}{m}$ mass Weight is force: Force $N = \frac{F_g \cdot m}{s^2}$ $E \int \int \int f_s = 4.45 N$ $\overline{F_8} = M \overline{g}$ $F_{ret} = F_{ret} = F_{c} + m_{j}^{2}$ $f_{ret} = F_{c} + m_{j}^{2}$ $f_{ret} = F_{c} - m_{g}$ $f_{ret} = F_{c} - m_{g}$ $=>F_{c}=0$ $m\vec{a} = \vec{F}_{net} = \sum \vec{F}_i = \vec{T} + m\vec{j}$) m $\overline{F_3} = m\overline{g}$ X: $max = -Tsin\theta + 0 = T = \frac{max}{sin\theta}$ j: may = Tcost - mg = 0 $\frac{V + g = mg}{Q_{X}} = -\frac{mar}{m} \frac{g}{\cos\theta} = -\frac{g}{\sin\theta} \frac{mar}{\sin\theta} - \frac{mar}{\sin\theta} \frac{\cos\theta}{\sin\theta} = -\frac{g}{\sin\theta} \frac{\sin\theta}{\sin\theta} \frac{\sin\theta}{\sin\theta} \frac{\sin\theta}{\sin\theta} = -\frac{g}{\sin\theta} \frac{\sin\theta}{\sin\theta} \frac{\sin\theta}{\sin\theta} \frac{\sin\theta}{\sin\theta} \frac{\sin\theta}{\sin\theta} = -\frac{g}{\sin\theta} \frac{\sin\theta}{\sin\theta} \frac{\sin\theta$

3rd action = reaction le 1st object exerts aporce on a 2nd object, the 2nd object acts on 1st with the same by magnitude and opposite in direction porce.