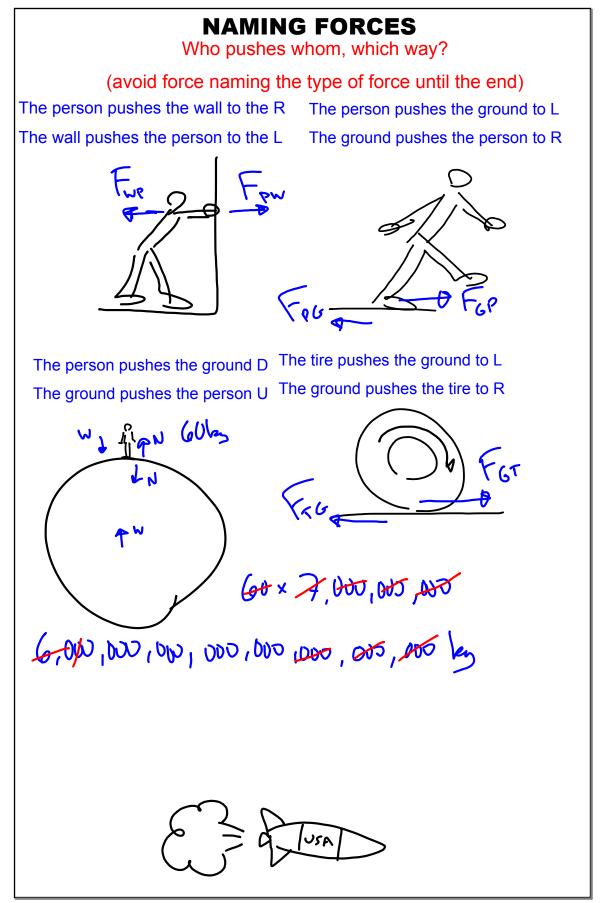
Newton's 3rd Law

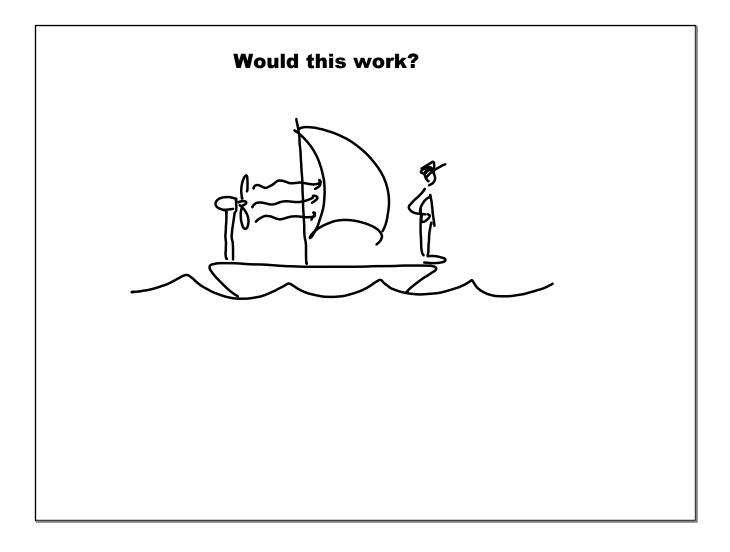
When one object exerts a force on a second object,

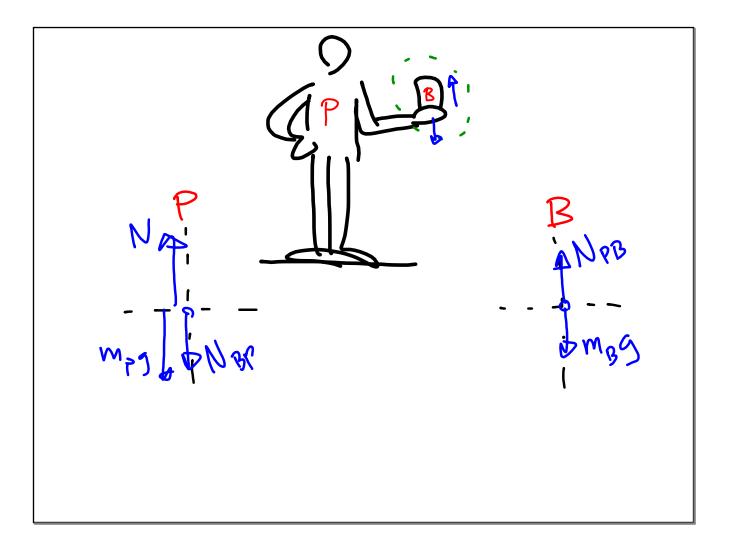
the second object simultaneously exerts an identical* force on the first object in the opposite direction.

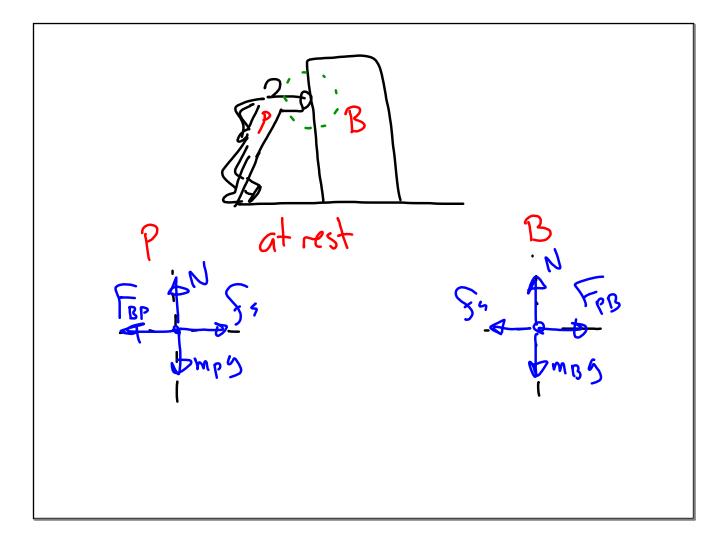
* same magnitude & same kind of force

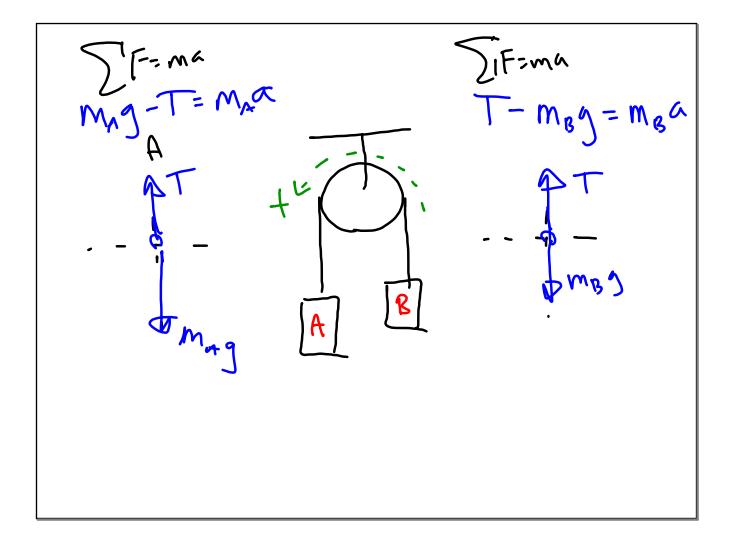
Action and reaction forces are always equal, even if the resulting motion is not

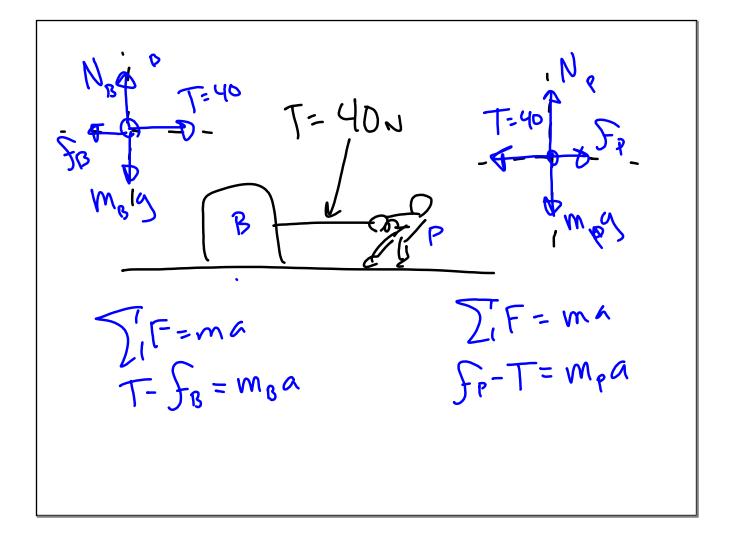


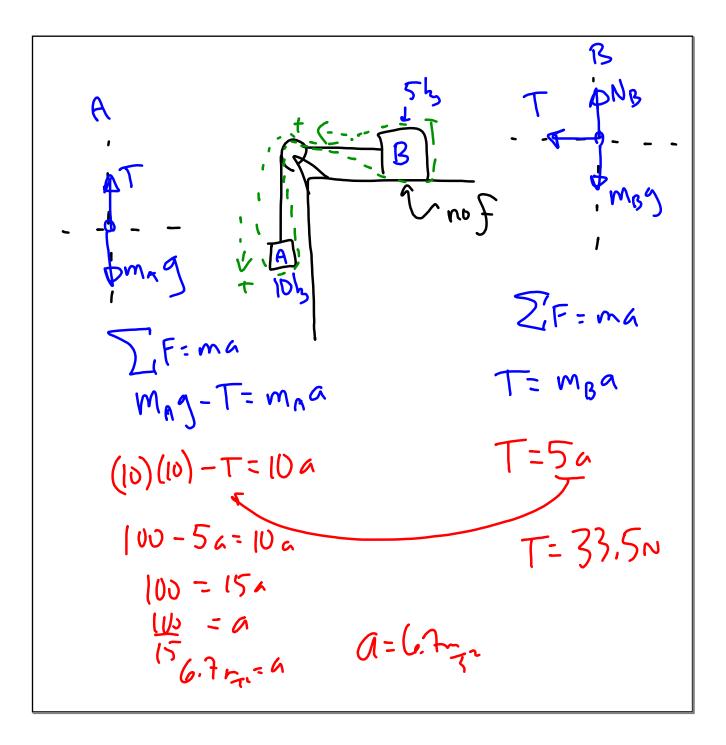


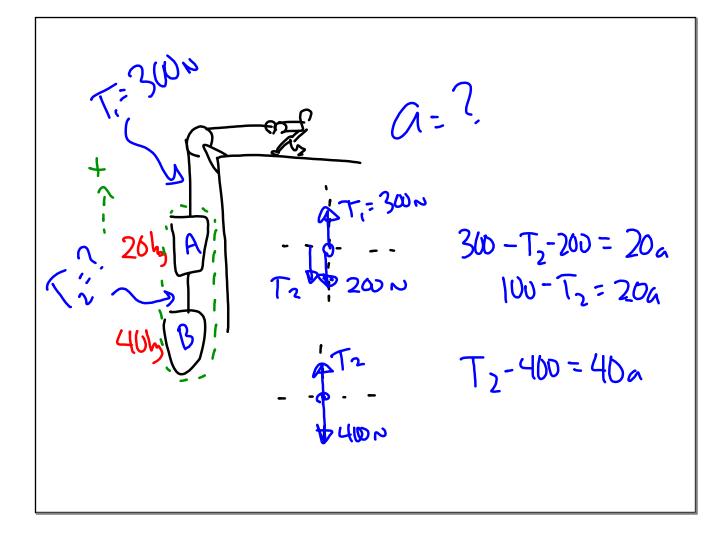


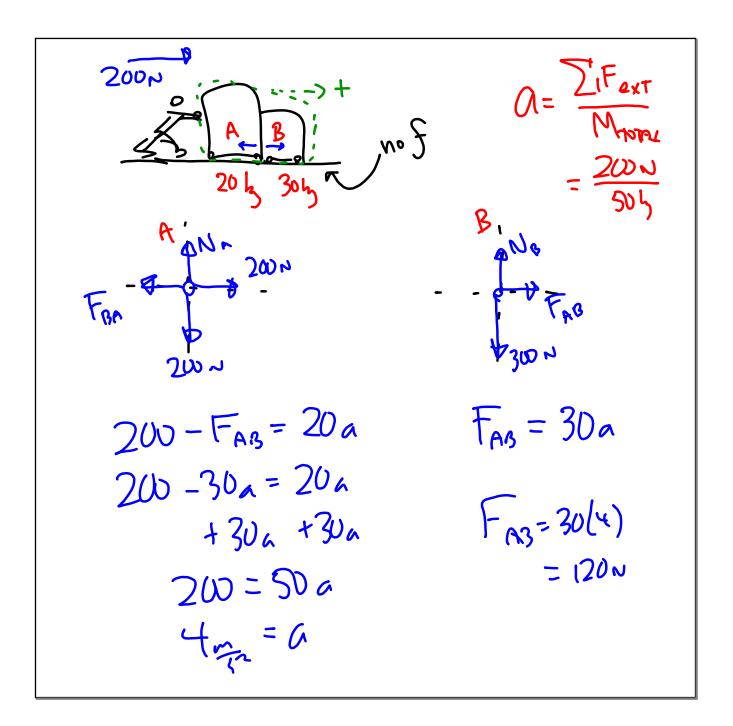


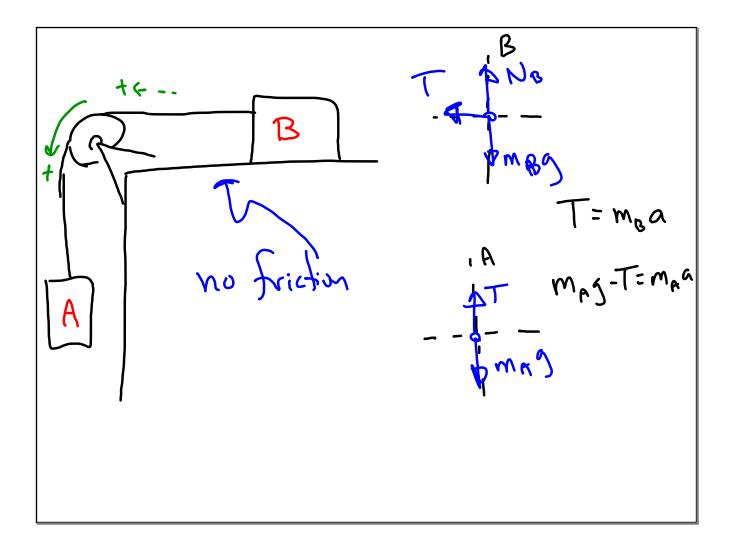


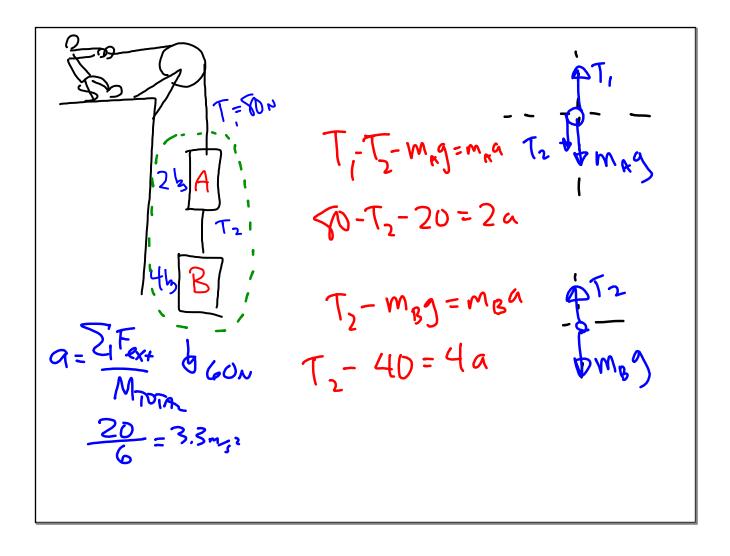


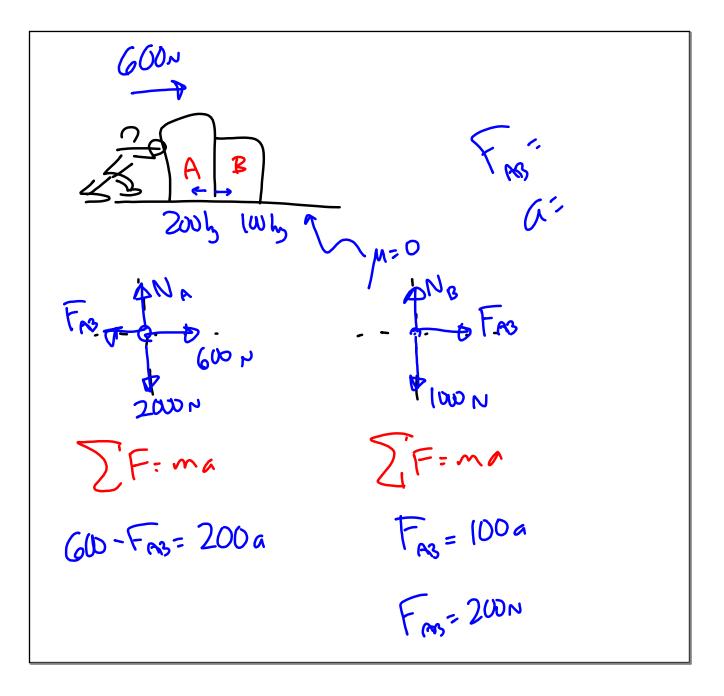












 $= 200_{N}$ $G = \frac{2}{7}$. (no friction) $Z_{1}F = mn$ 200- $T_{2} = 30n$ $Z_{1}^{r} = 20a$ $A = \frac{2iF_{ext}}{M_{pon}}$ $= \frac{200}{50}$ 200 - 20a = 30a $T_{2} = 20(4)$ $T_{2} = 80_{N}$ 200 = 50m 4 - = 0 = 4-----

