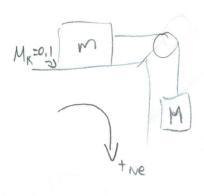
Atroods

- If objects touching and have some a, you can combine than as one system

- When you analyze FBD of a system, you ignore internal forces.

- why? because they concel each other out when you add their ma equation revisit grade 11 textbook (The first pulley system question)

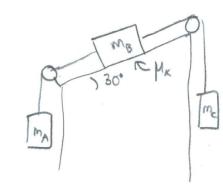
Find a for the following.



$$(m_{A}+m_{B}+m_{C}+m_{D})\alpha = m_{C}g+m_{D}g-m_{A}g-M_{K}m_{B}g$$

$$= g(m_{C}+m_{D}-m_{A}-M_{K}m_{B})$$
 $m_{A}+m_{B}+m_{C}+m_{D}$

PRACTICE



Find a and all tensions,