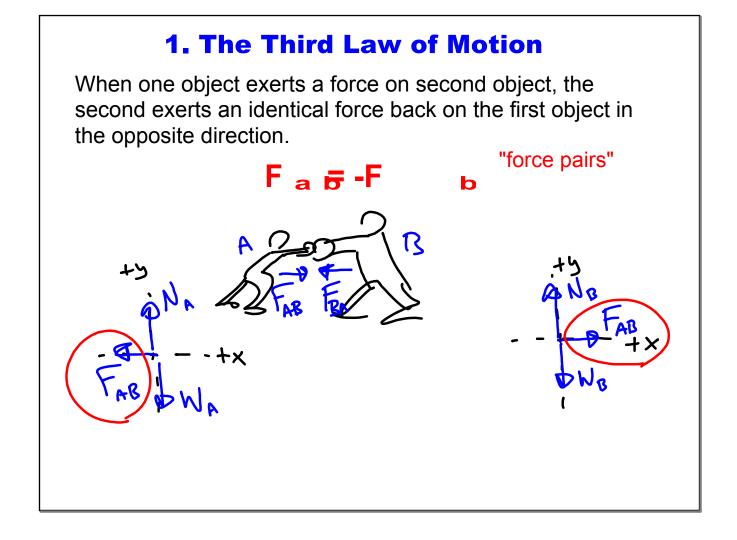
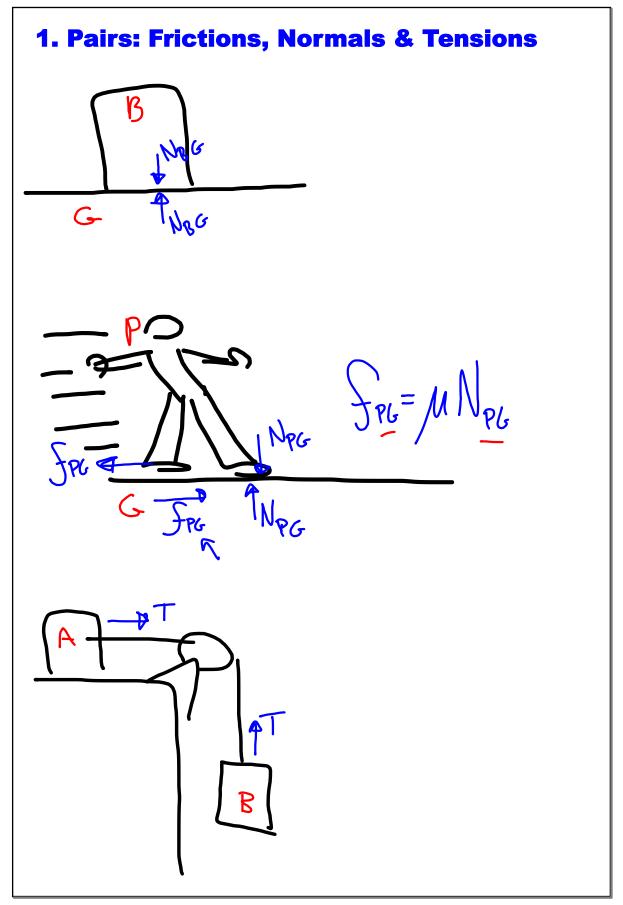
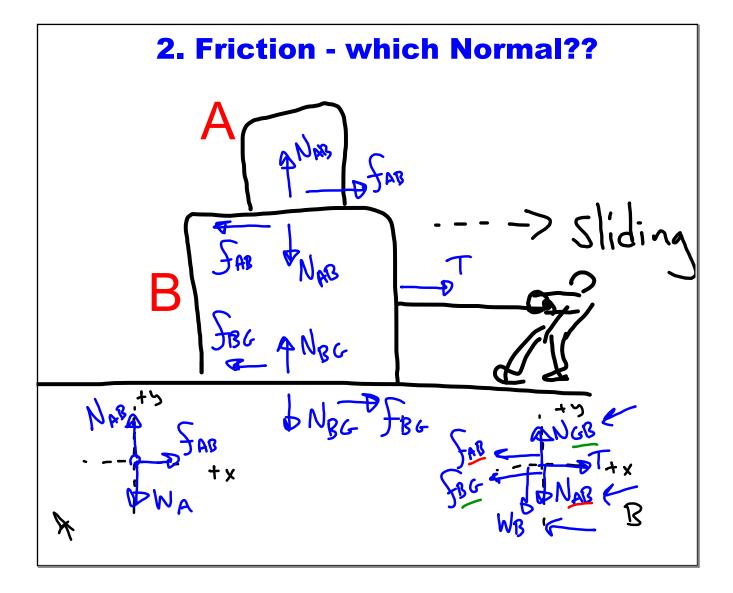
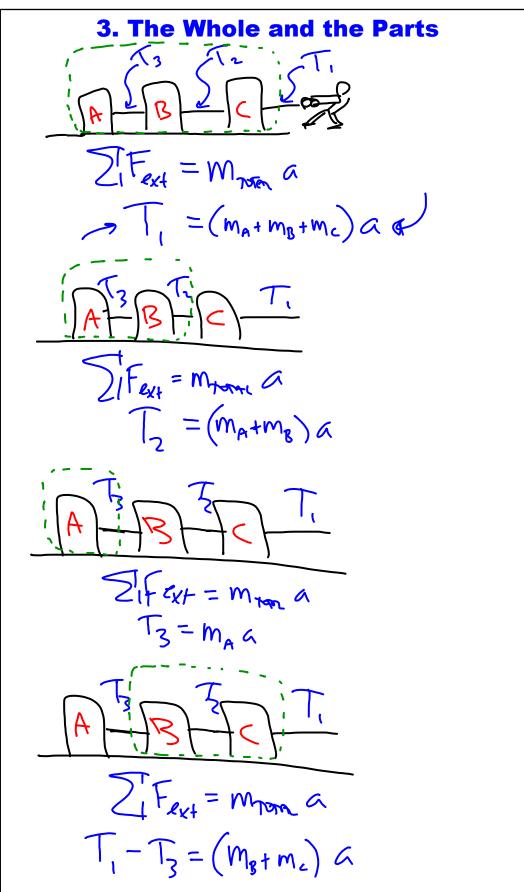


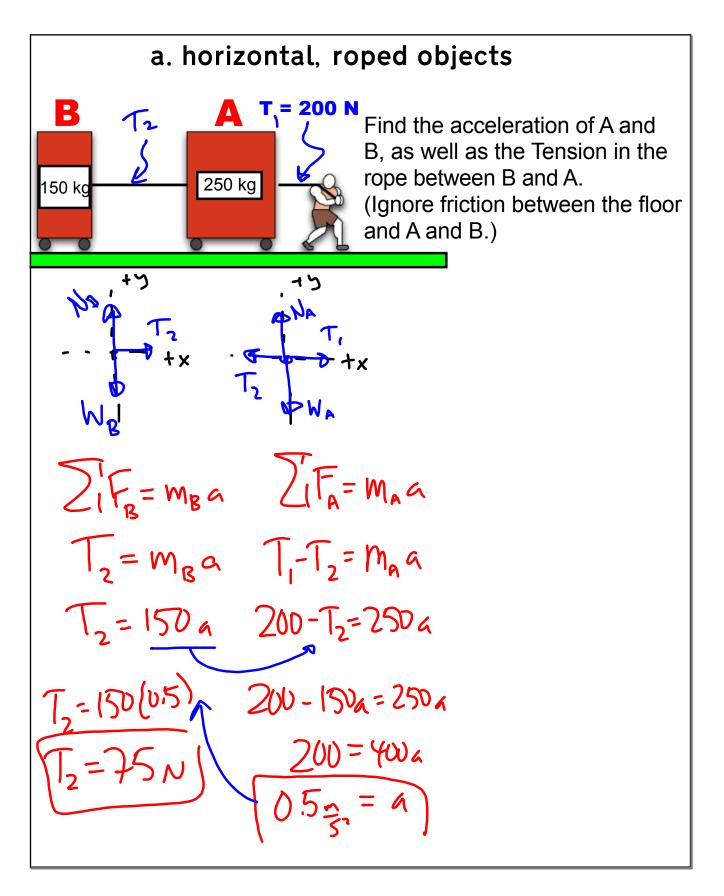
- 1. Newton's 3rd Law
- **2. Pairs: Frictions, Normals & Tensions**
- **3. Friction which Normal??**
- 4. The whole and the parts
- **5. Sample Problems**

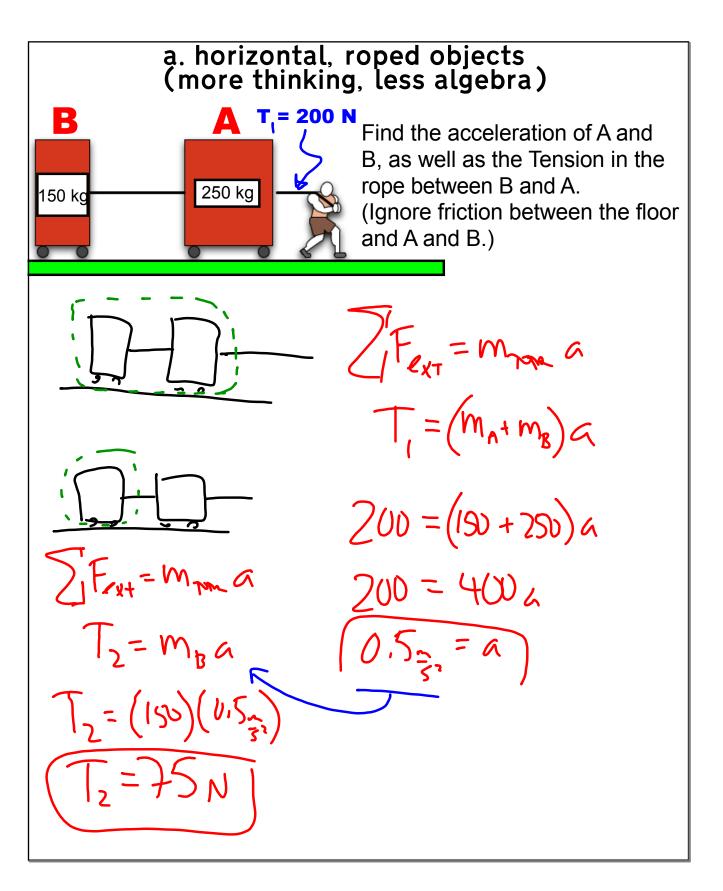


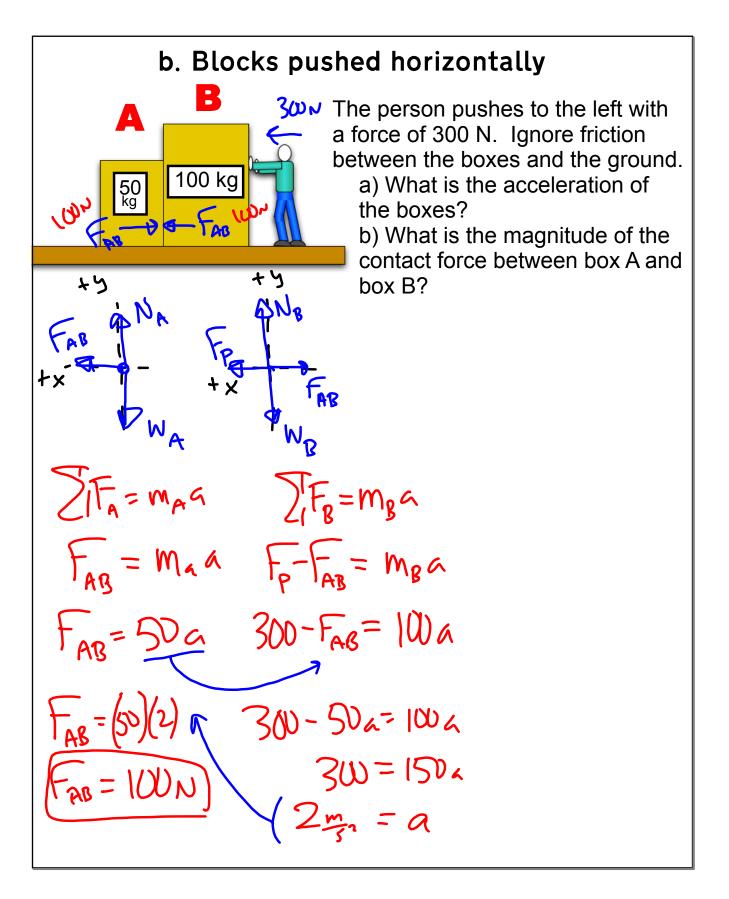








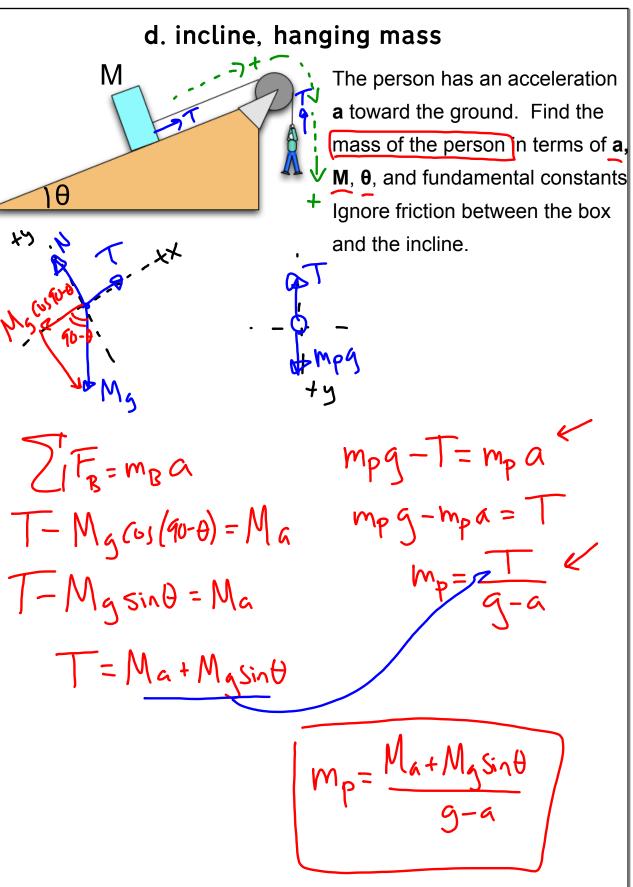




Newton's Laws II

c. flat surface, hanging mass 90 kg -- -- >+ θT Given the coefficients of friction, J + determine the acceleration of the us = 0.4 ↓ T system. Also, determine the µk = 0.3 Tension in the rope. ', fight = MsN 60 kg +3 $+N_{P}=900$ $= \frac{(0.4)(400)}{(400)}$ $= \frac{(0.4)(400)}{(100)}$ $= \frac{3}{(400)}$ $= \frac{3}{(400)}$ $Z_{i}F_{p}=m_{pa}$ $Z_{i}F_{B}=m_{pa}$ $W_{B} > T$ $T-f=m_{pa}$ $W_{B}-T=m_{Ba}$ F_{k} $T = f_{k} = 90a \quad 600 - T = 60a R$ $T = M_{k}N_{p} = 90a \quad 600 - (90a + 270) = 60a$ $T = (6.3)(900) = 90a \quad 600 - 90a - 270 = 60a$ T-270=904 / 330 = 150 G T= 90 x + 270) T= 90(2.2)+270 = 198+270 $T = 468 \, \text{m}$

Cycle 6



Cycle 6

Newton's Laws II

