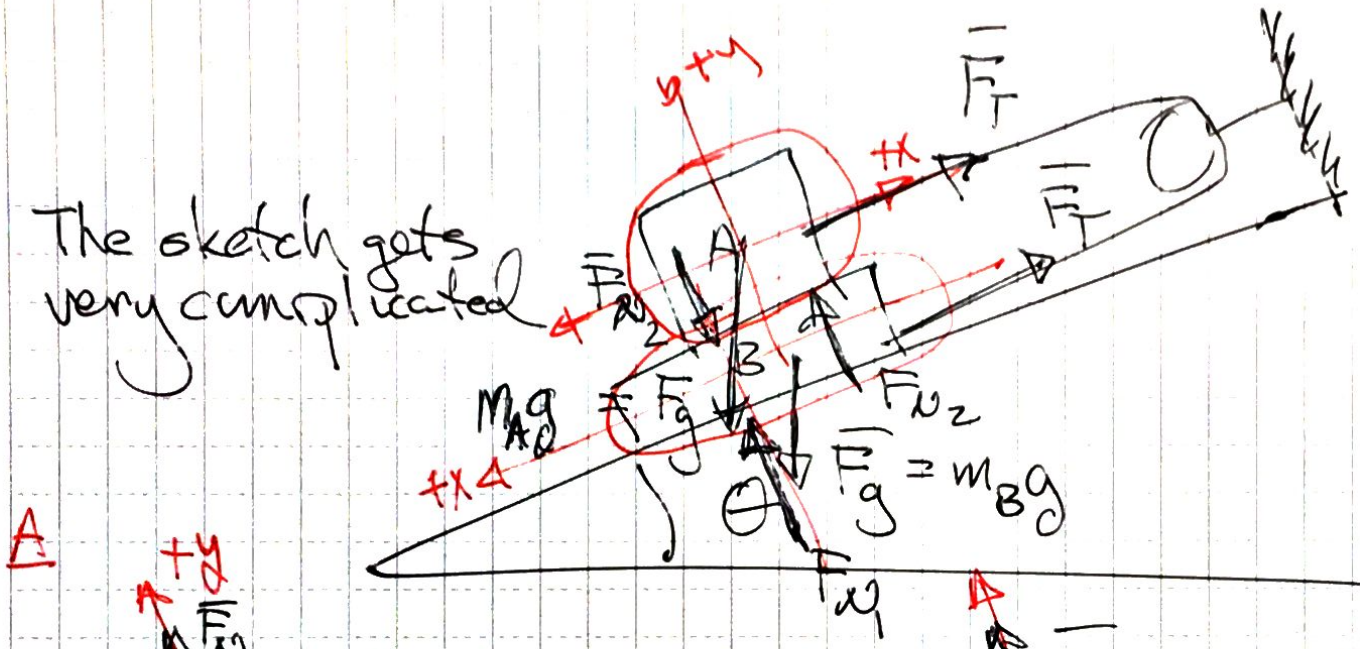
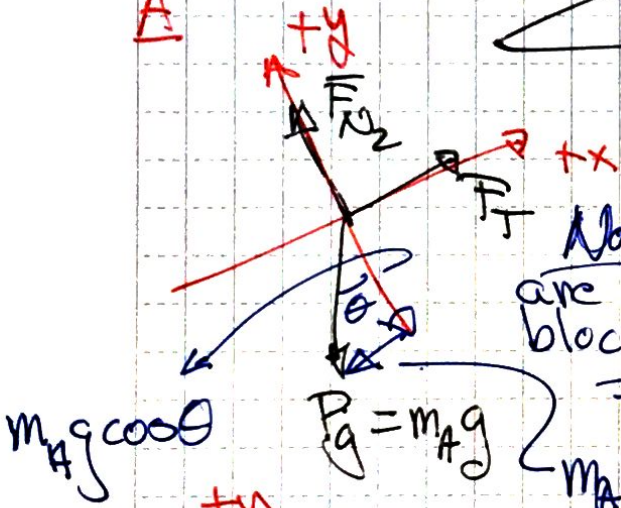
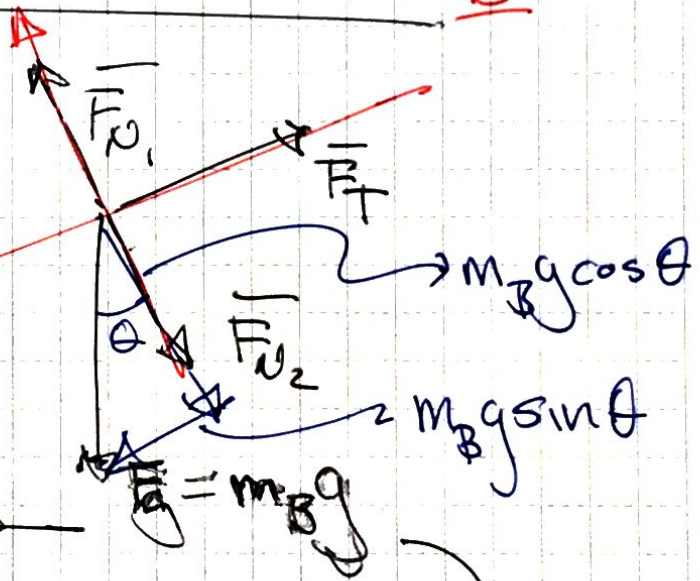
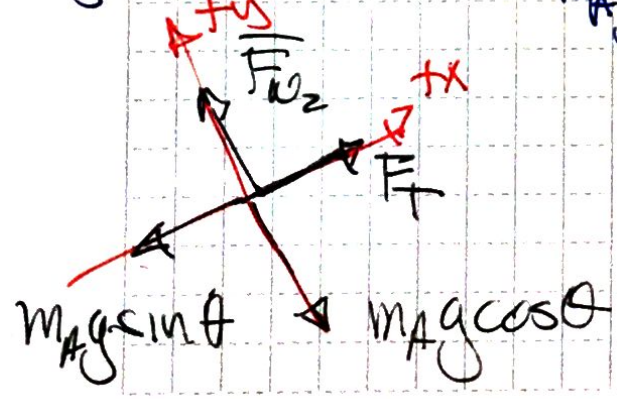
The sketch gets very complicated





Note: +x directions are both + when blocks move!





	x	y
$\vec{F}_{N_2}$	0	F_{N_2}
$\vec{F}_T$	F_T	0
$\vec{F}_g$	$-m_A g \sin\theta$	$-m_A g \cos\theta$
$m_A a$	$m_A a_x$	$\Rightarrow a_y = 0$!

next page

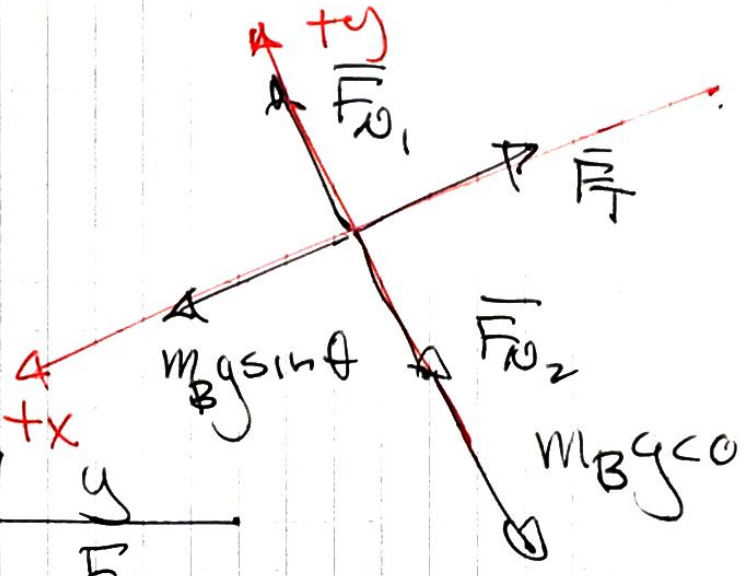
1 SQUARE =

mass A

$$F_T - m_A g \sin\theta = m_A a_x$$

$$F_{N_2} - m_A g \cos\theta = 0$$

mass B



	x	y
F_{N_1}	0	F_{N_1}
F_{N_2}	0	$-F_{N_2}$
F_T	$-F_T$	0
F_g	$m_B g \sin\theta$	$-m_B g \cos\theta$
$m_B a$	$m_B a_x$	0

$$F_{N_1} - F_{N_2} - m_B g \cos\theta = 0$$

$$-F_T + m_B g \sin\theta = m_B a_x$$

check unknowns and solve