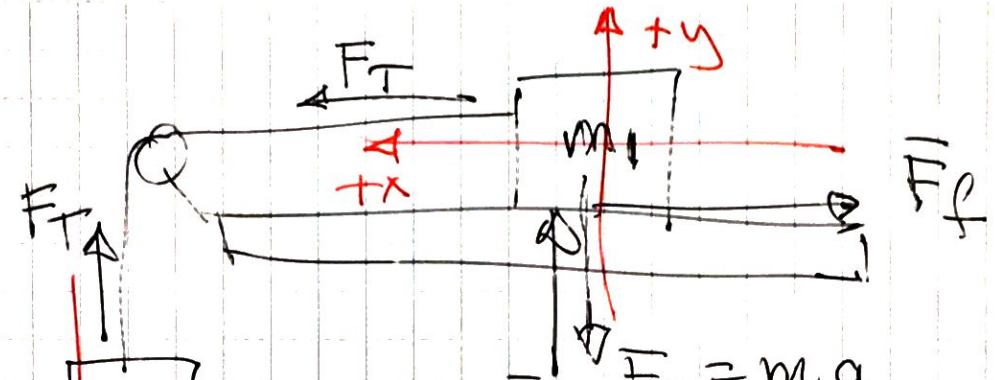
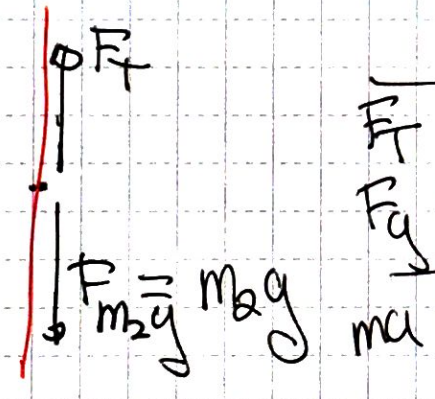


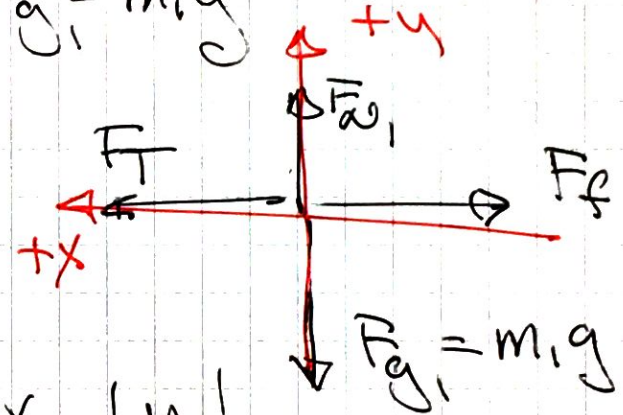
Note: For consistency → $+x$

$F_{g_2} = m_2 g$



	x
F_T	$-F_T$
F_g	$m_2 g$
ma	$m_2 a_x$

$$-F_T + m_2 g = m_2 a_x$$



	x	y
F_f	$-F_f$	0
F_{g_1}	0	$-m_1 g$
F_T	$+F_T$	0
F_{N_1}	0	F_{N_1}
ma	$m_1 a_x$	0

$$-m_1 g + F_{N_1} = 0$$

$$-F_f + F_T = m_1 a$$

$$F_f \leq \mu_s F_{N_1}$$

$$= \mu_K F_{N_1}$$

Depends