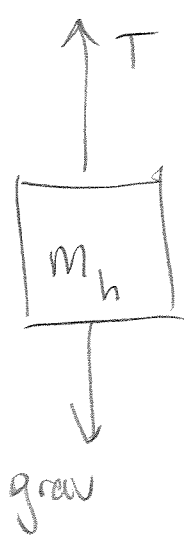


name	x	y
grav	$-mg \sin \theta$	$-mg \cos \theta$
rope	$+T$	0
normal	0	$+F_N$
friction	$-F_f$	0
tot	$+ma_x$	0



$$F_N = mg \cos \theta$$

$$F_f = \mu_k F_N = \mu_k mg \cos \theta$$

name	x	y
grav	0	$-m_h g$
rope	0	$+T$
tot	0	$-m_h a_y$

$$(1) \quad T - m_h g = -m_h a$$

$$(2) \quad T - mg \sin \theta - \mu_k mg \cos \theta = +ma$$