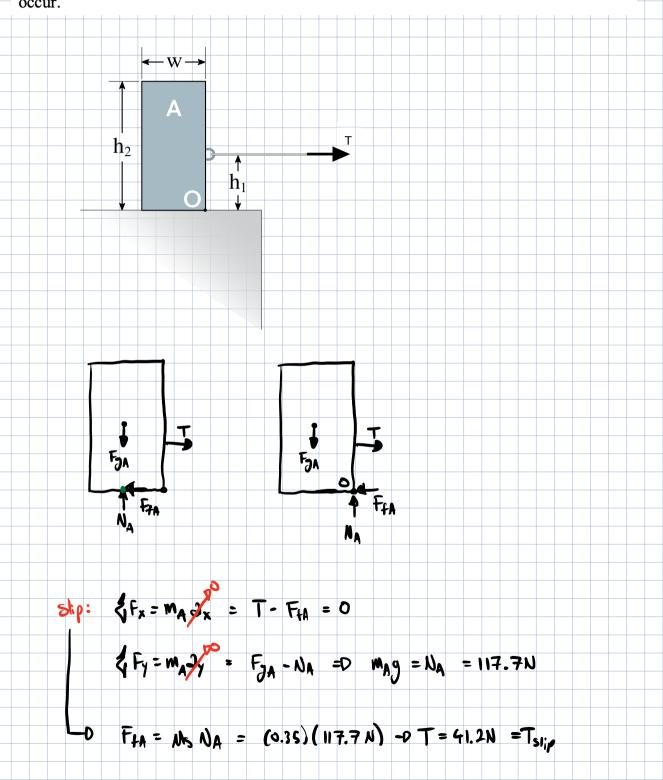
You have set up the following block such that A is connected to a rope with tension T. Block A has a mass of 12kg and height $h_2 = 0.8m$, width w = 0.4m. The rope connects at a height $h_1 = 0.4$ m and the coefficients of static and kinetic friction are given as $\mu_s = 0.35$ and $\mu_k = 0.3$. Determine if Block A tips or slips first and the force T required for this to occur.



the
$$\{N_0 = I_{pl}^{T} = T(N_1) - 5a(N_2) = 0$$

$$T = \frac{(117.7N)(0.2n)}{(0.4n)} = 58.9 \text{ Alippy}$$

$$Since T_{Np} > T_{skp} \Rightarrow \text{slippy} \text{ before tippy}$$

$$T = 41.2 \text{ Alippy}$$