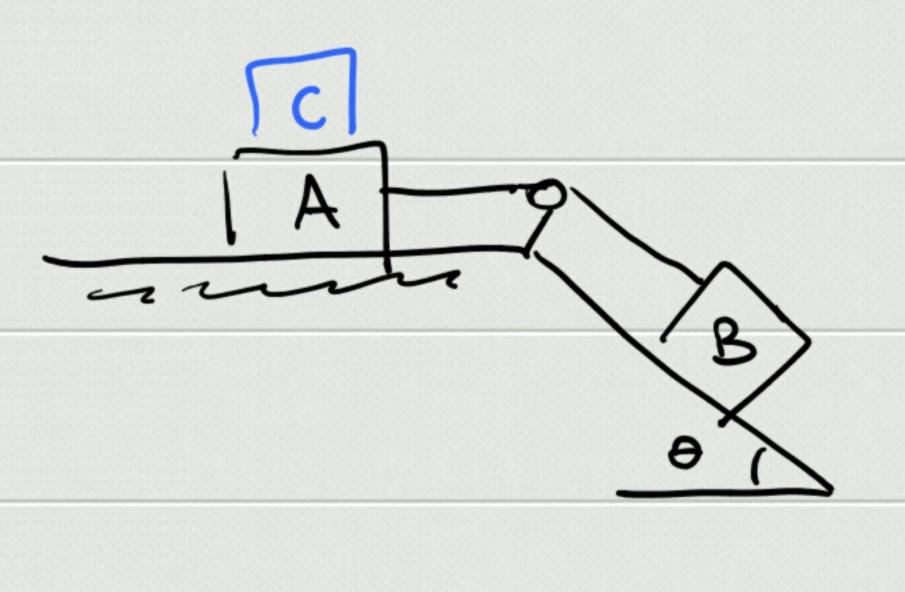


Fod (t) Two x  $-0 = \sqrt{2} - 2 \text{ mgd} +$ Fad = Jud Now - 0 = 53 2a-d - 0 = 53 + 2a d - manua co  $a = -\mu g$   $- \int 0 = \nu - at$   $d = \frac{1}{2}at^{2}$ Fad = ma => [a = - md g]



 $m_{8} = 10 \text{ kg}$   $m_{8} = 6 \text{ kg}$   $\theta = 30^{\circ}$   $\mu_{8} = 0.25 \text{ md} = 0.2$ 

mc, min=? : eq. statico, T=?

T=mBgsm9

7 - For = 0 \*

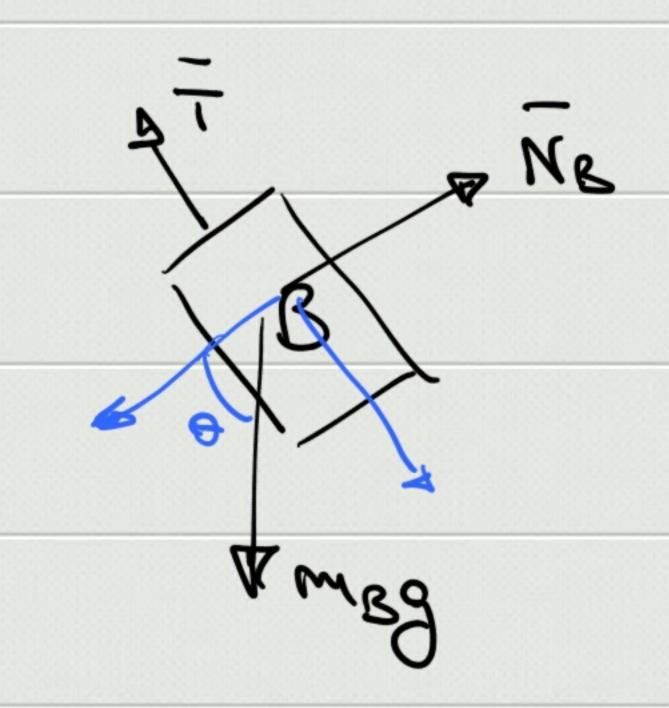
T - Fer < max + mac) g

For < ma + mc) g \*

Fas = mamag

T - m892m9=0

=> T = meg 2m 9 = 29.4N



Fan-T=0 => Fan=T

For & For, max = us NA

=> NA = (ma+mc)g

=> Fos = ma+ mc)q

Fest A The - mg

ANA CHAZ

ANA CHAZ

Mag

Mag

For 
$$= m_B g \sin \theta \le F_{an,max} = \mu_n (m_A + m_c) g$$

$$\Rightarrow m_C \ge \frac{m_B \sin \theta}{\mu_3} - m_A = m_{c,min} = 2kg$$

$$\Rightarrow m_{c,min} = 2kg$$

$$\Rightarrow$$

$$\left( m_{B} \sin \theta - \mu_{d} m_{\Delta} \right) g = \left( m_{\Delta} + m_{B} \right) Q$$

$$Q = \frac{m_{B} \sin \theta - \mu_{d} m_{\Delta}}{m_{\Delta} + m_{B}} g = 2.45 \text{ m/s}^{2}$$

$$T' = m_{\Delta} \alpha + \mu d m_{\Delta} q =$$

$$= \frac{m_{\Delta} m_{B}}{m_{\Delta} + m_{B}} (s_{M} \theta + \mu d) q = 14.7 N$$