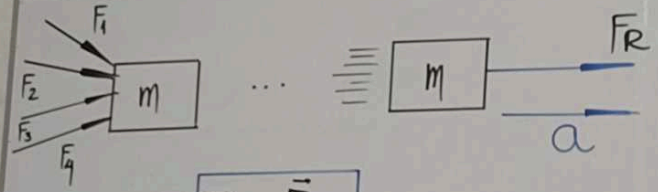
TRIBUTOS

DINÁMICA.

2da Ley de Newton. (Ley de Aceleración)

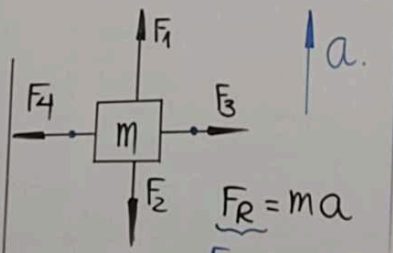


$$\vec{a} = \frac{\vec{F}_R}{m}$$

Dinámica Lineal.

$$F_R = ma.$$

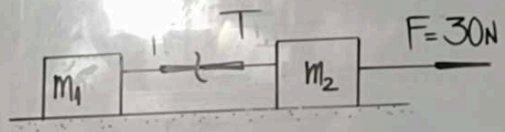
1) $F_R = \Sigma F_{favor} - \Sigma F_{contra.}$



$F_R = ma$

$F_1 - F_2 = ma.$

①



① $F_R = ma$

$T = 4a \longrightarrow T = 20N$!

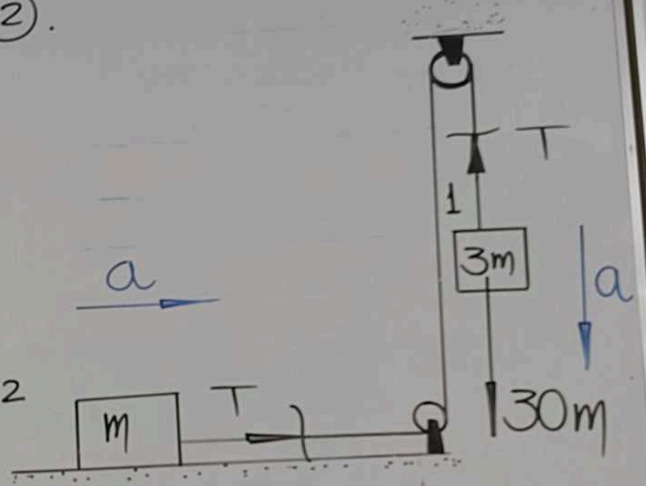
② $F_R = ma$

$30 - T = 2a$

$30 - 4a = 2a$

$a = 5\,m/s^2$

②.



② $F_R = ma$

$T = ma$

① $F_R = ma$

$30m - T = 3ma$

$30m = 4ma$

$a = 7{,}5\,m/s^2$!

$F_R = ma$ ✓

$30m = 4ma$

$a = 7{,}5\,m/s^2$

③.

①

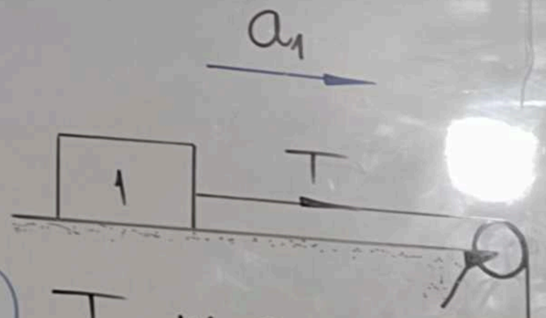
②

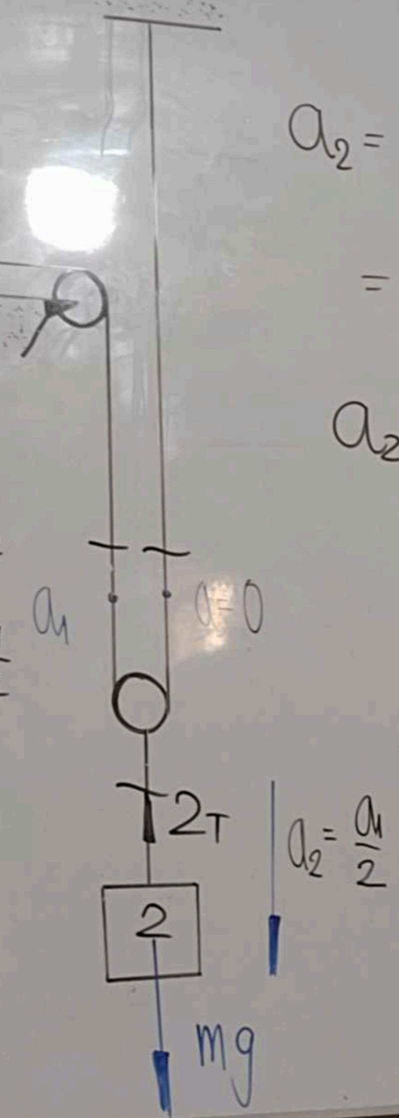
ROBUSTOS: A

NO RAYAR (OK)

(TOSCANO)

③.





① $T = m \cdot a_1$

② $mg - 2T = m \cdot a_2$

$mg - 2ma_1 = m \cdot \frac{a_1}{2}$

$g = \frac{5a_1}{2}$

$\frac{2g}{5} = a_1$

$a_2 = \frac{a_1}{2}$

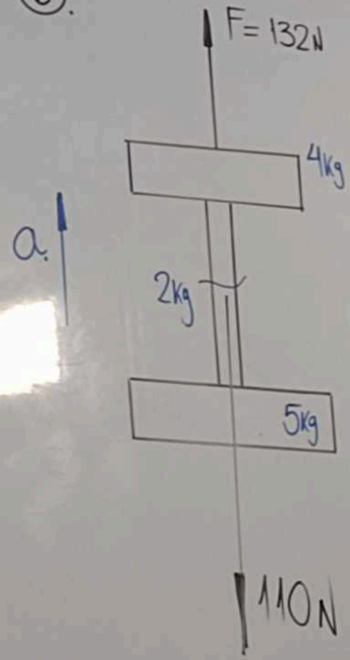
$= \frac{\frac{2g}{5}}{2}$

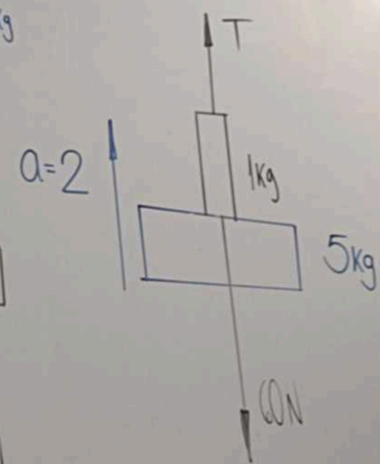
$a_2 = 1{,}96\, m/s^2$

42

MITAD

⑥.





$F_R = ma$

$132 - 110 = 11a$

$a = 2\, m/s^2$

$F_R = ma$

$T - 60 = (6)(2)$

$T = 72N$

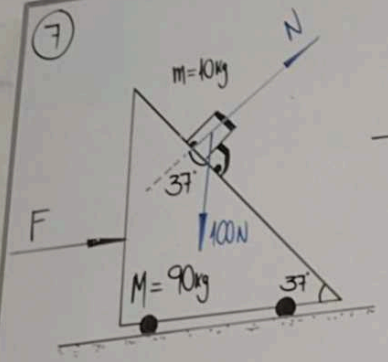
X Código Moral:

AMA / SU... LADRÓN Y ... OCIOSO NO RAYAR

TRIBUTOS

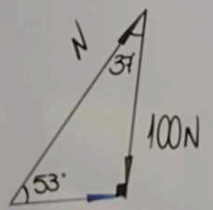
(TOSCANO)

⑦



a

$a = g \operatorname{Tan}\theta$.



$F_R = ma$.

$75 = 10.a$

$a = 7{,}5\ m/s^2$

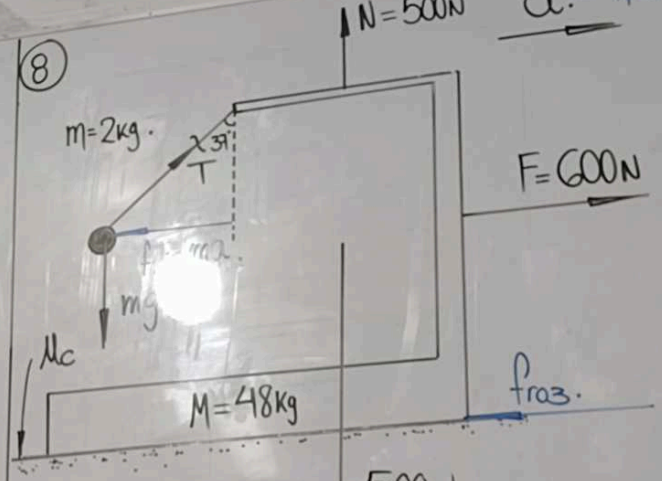
$F_R = ma$

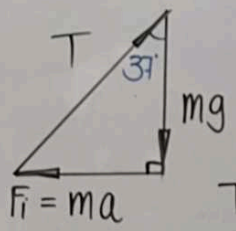
$F = (90+10)(7{,}5)$

$F = 750N$ /

⑧

$a = 7{,}5\ m/s^2$





$Tg\,37° = \frac{ma}{mg}$

$g\,Tg\,37° = a$

$a = 7{,}5\ m/s^2$

*) $F_R = ma$.

$600 - f_{roz} = 50(7{,}5)$

$600 - \mu.500 = 375$

$225 = 500\mu$

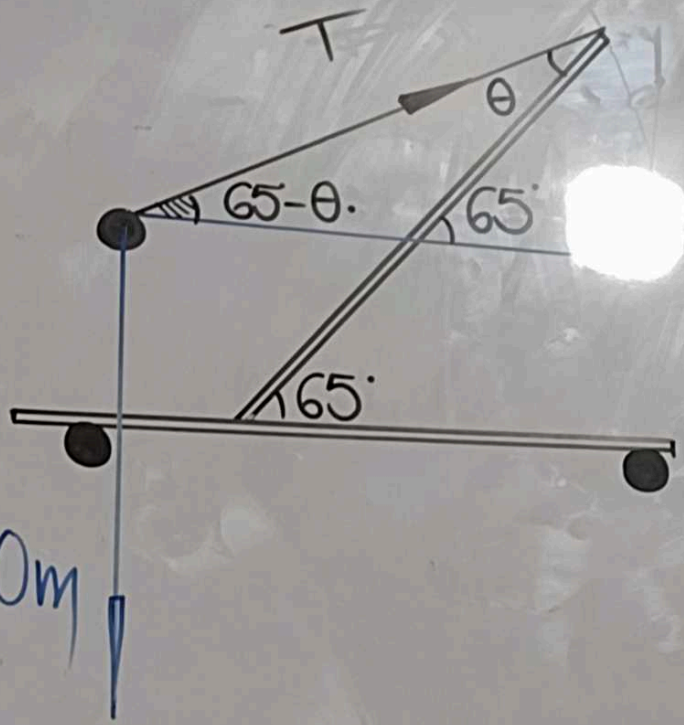
$\mu = 0{,}45$ /.

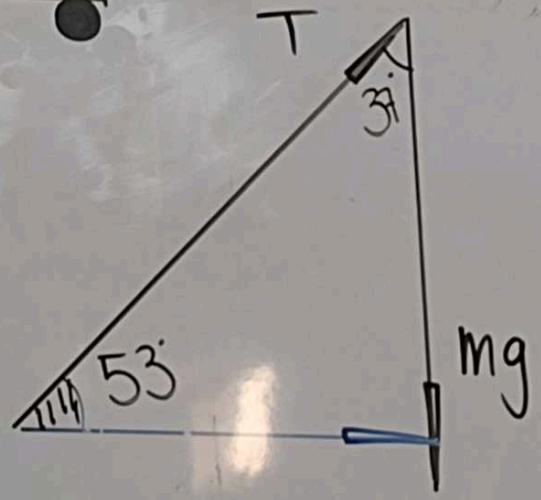
ROBUSTOS: A

NO KAYAR (OK)

(TOSCANO)

⑨.





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⑥.

$a = 7{,}5\,m/s^2 = 10 \cdot Tg\,37°$

a.

$\theta = 12°$