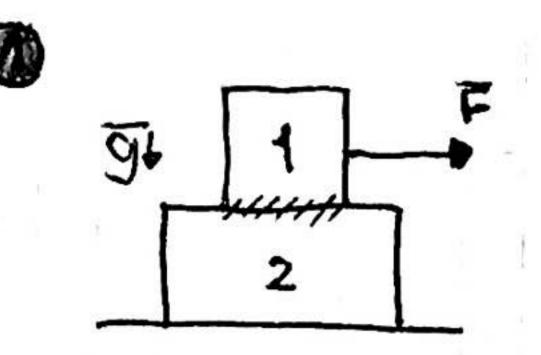
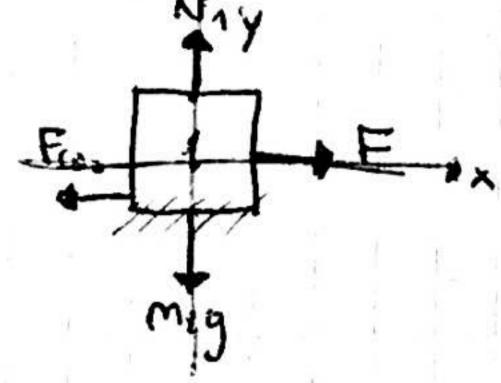
DINAMICAI



My Mz AE

Fraix que acelere ambas cuepos pero no desticen una respecto del otro



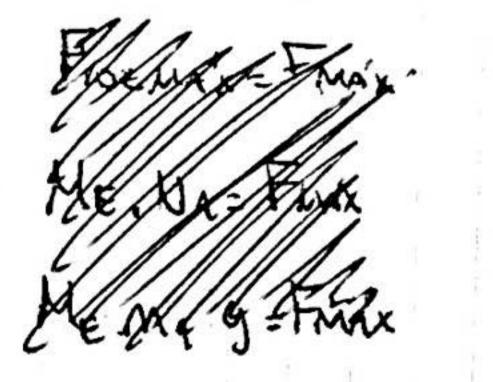
May N1

Situación estática

Froz = FRE X1=X2 |FROZ MAX = HE. NA

Froz= F-maxin

Fraz= mz.x1



FROZE KI

= FROZ = F - MI FROZ

FROZ + FROZM1 = F

FROZ {1+ m1 }=F

FROZ = F (1+ m) FREMAL ME. N1 = ME. M. 9

Therease = Frisz = ME. mn.

d'aul es la aceleración del sistenar?

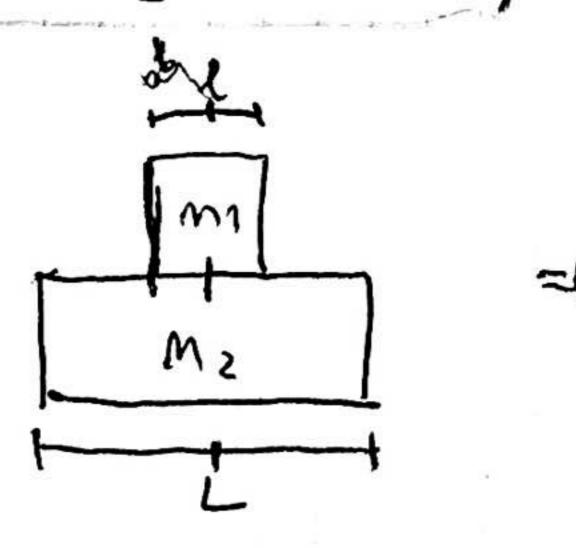
fun el umo

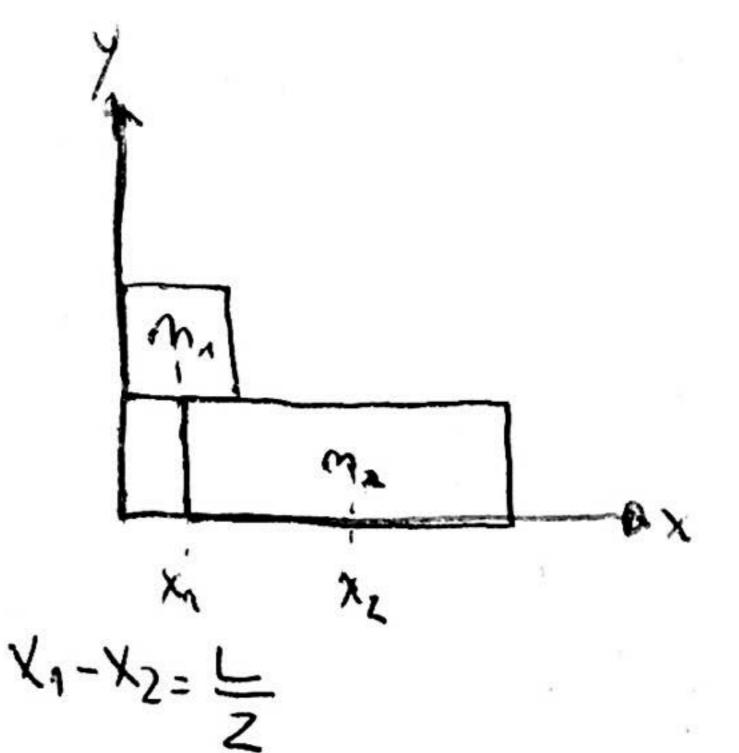
se aplicu sobre mz unu f= 2Fméx culculation c) à vul en la acelement de my masi Mo"

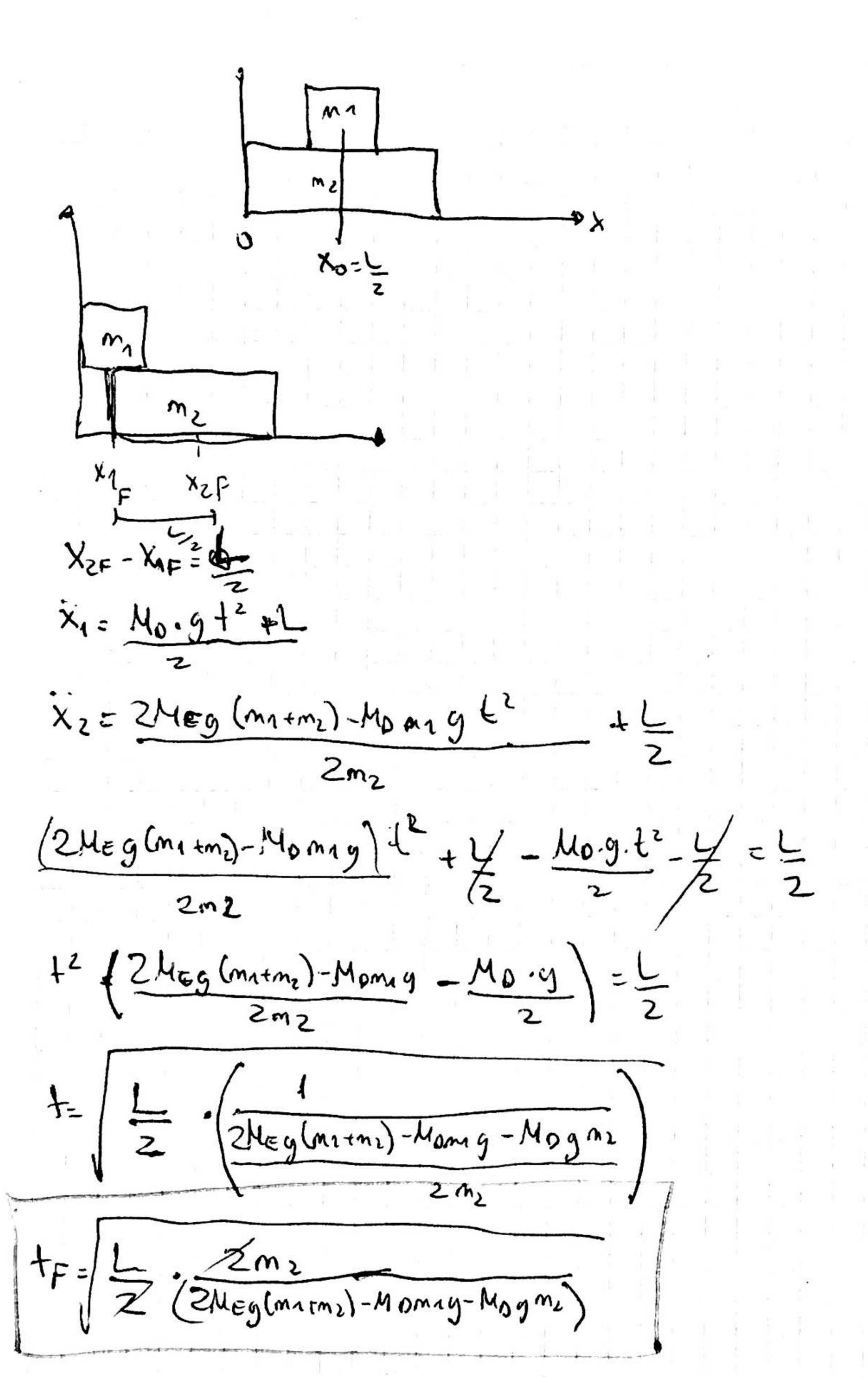
20 Rosanier de dirinino

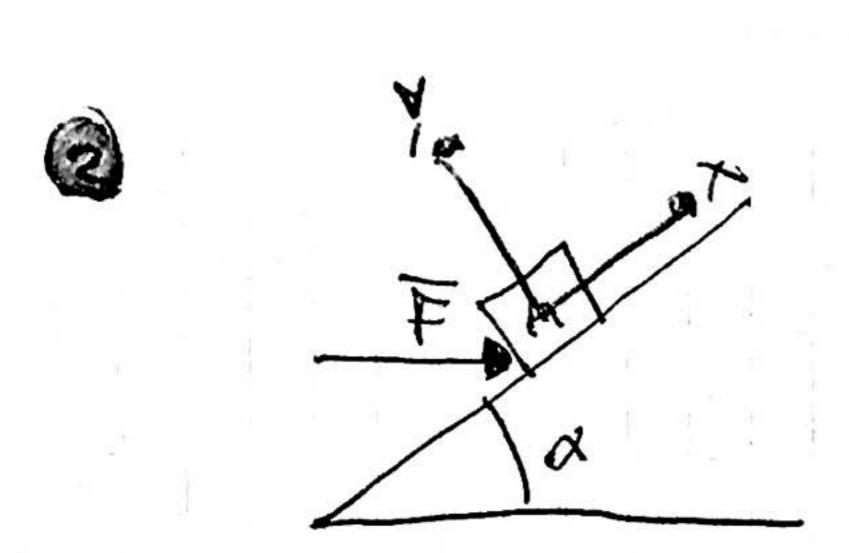
(1) (2) Fro=M121 (3) N1=M19

(2) (x) Theylmound - Fro = mixiz (y) Nz = mag + Na





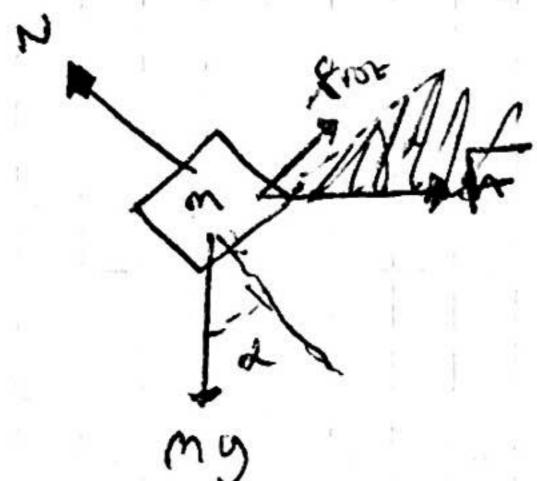




DATUS ME

91

a) se conoce my Mr y F=0 à pour que et estant el blogre en repoiro?



Bi F=0

(x) -mg. serx + Fr==0 = FRE = myserx

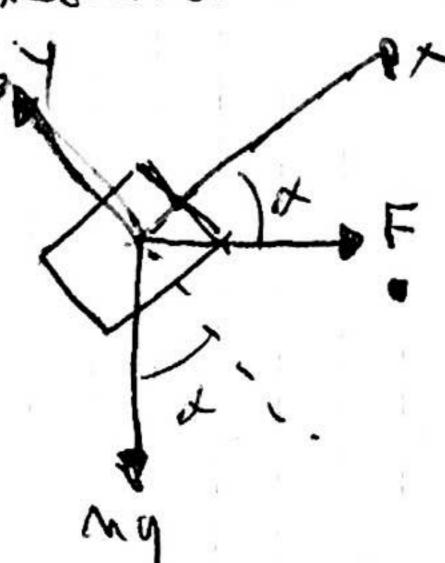
(9) N-my cosa = 0 N=my cosa

=0 Frence = HE. N > Fre Como & E [0, 7] no importa el módulo

ME. My cosx Janysond

HE > ty x

6) si x es alguns de las valores hallados es al journe que valores de F permanerer el bloque es reposo?

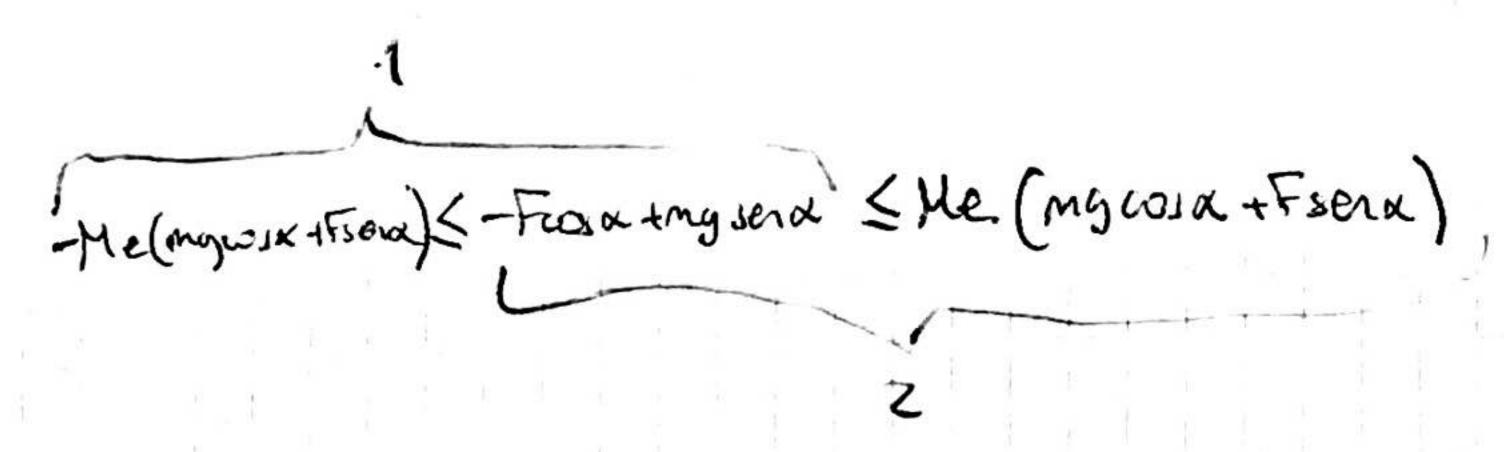


(x) + Fre + FCOIX-My. son x = 0

(i) N-mg wax - Frank = 0

N=mgcold+Fsenx

IFre I & MEN = Frank



(1) FLOSA-MEFSERX & Myserd + Me agrand
F(cosd-Meserx) & my (send + Me cosa)

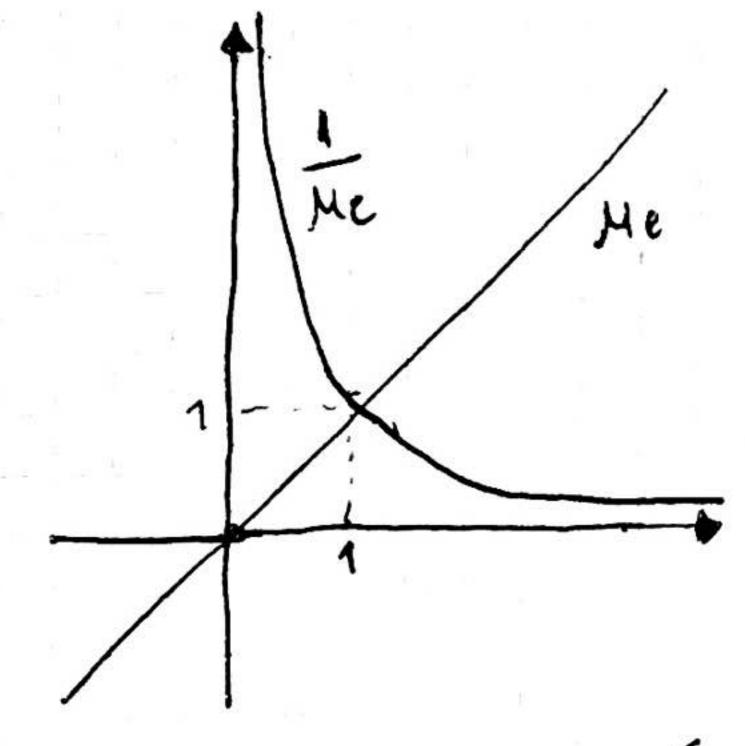
Suponys que cord-lue ma 70

=> cosa> Mesera

1 > tyx

y you se gre me, to, a

Grafice



tgasme 1/

=) cosa-ple sono >0 V

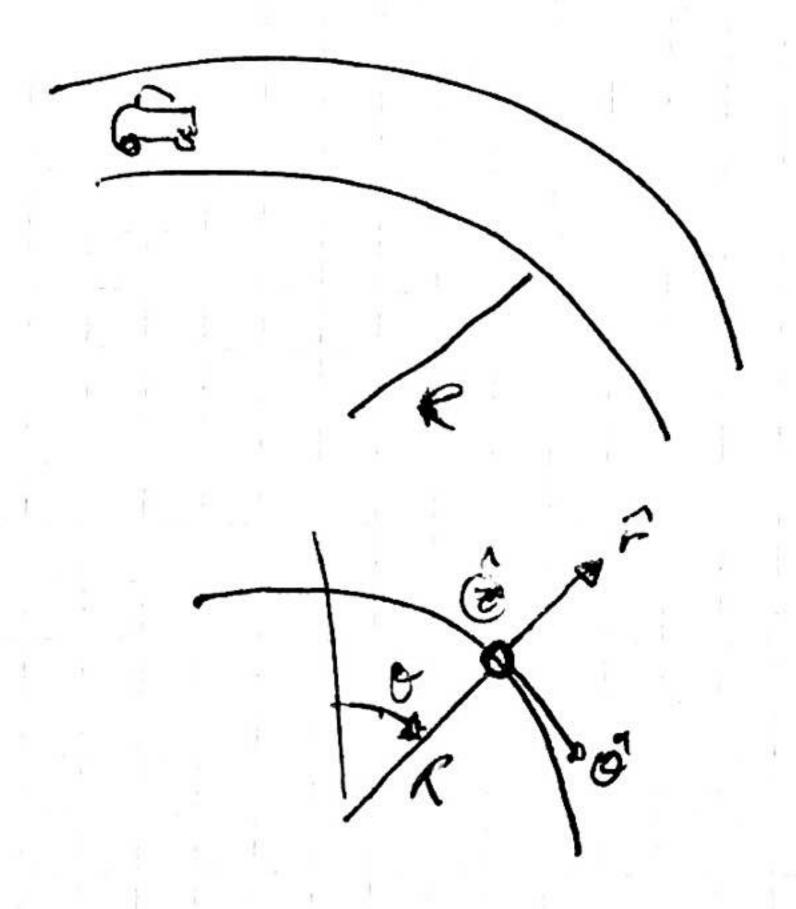
- ·. F < mg (senat Mesonx)
- (2) mysona-Memy was & Mefsona+Fwax my (sona-Me. cova) & F (herona+ cosa)

F> my (sera-Merosa) = ya que
Mesona + word

MENTOR AND ME. COJA) SEIR

Haller E maix / blogre guieto c) Si m= 2kg lie=tyx =0,3 tgx=0,3 =0 00= 16,7 Fraix = M.y (101 x + the word) => FMix = Zky .487,2. (0,2873+0,3.0,95782) (cf85,0). c,0 - 5878P)

Vesich polar



(e) 0 0

(F)=+FR=+Re.m

(2) = N-My = m. (2) N-My

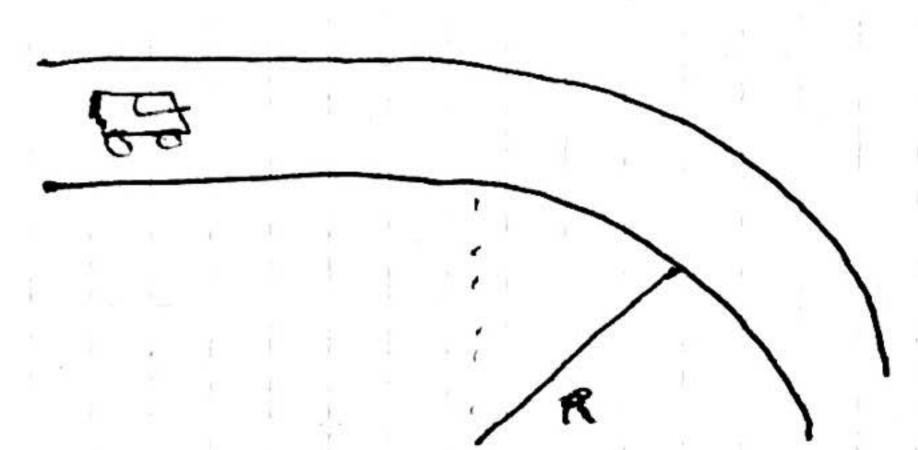
Para que Me sea min se debe obtener finax con la vote FRE 1 & ME my

FRE = ROM = MEMIN. My

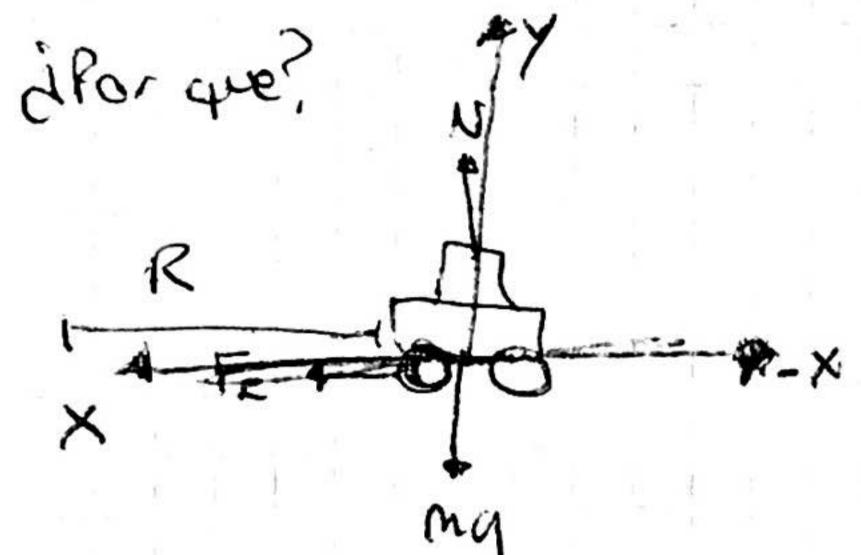
ROZ- MEMIN

Vièrna Vièrna Vièrna Vière

ening Remin



a) Cual debe ser el nírio wes de roz pura que so deslice? ¿ Estétiu o dissinarios?



is + FR=m X

(v) N-myz(v) = N=my

and = 0 = 252

El accor Me se da count con la Victe dude la Feor e max.

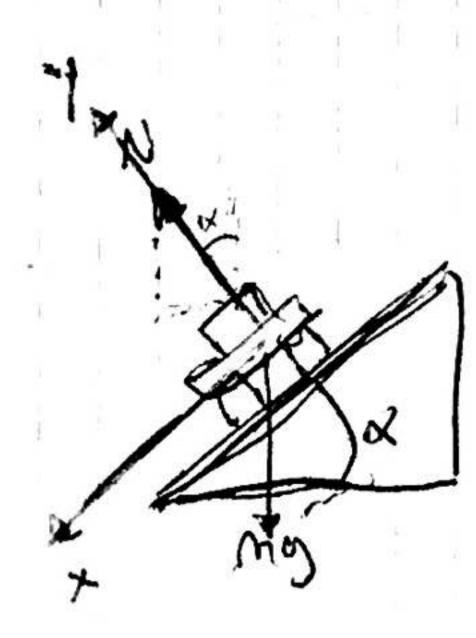
FR=M.Z

FROZMAX = MENIN N = M. W.

MENIN . Dry = MOZZ

MEMIN = U-2 gr

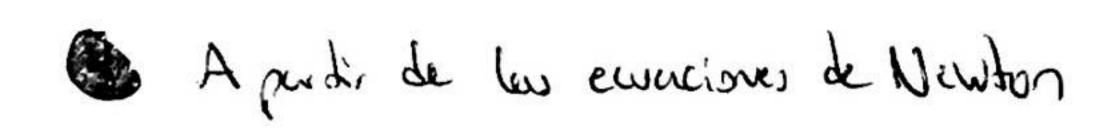
son Fou (d

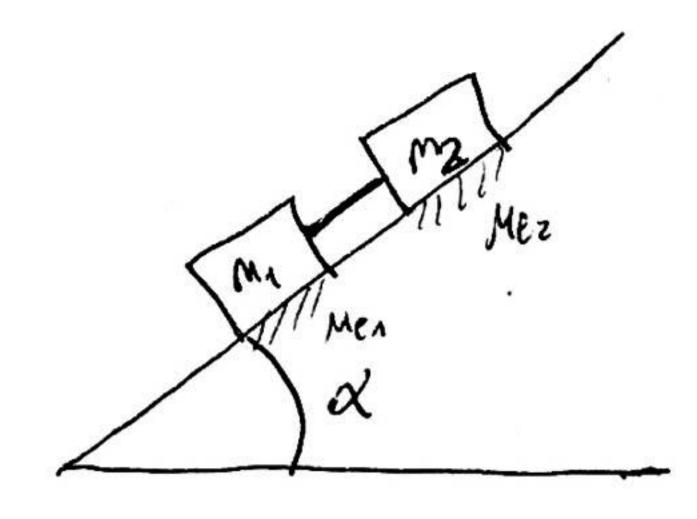


(2) Angsend = prix

(y) N-ngwood=mw) o => N=ngwood
grax= 222

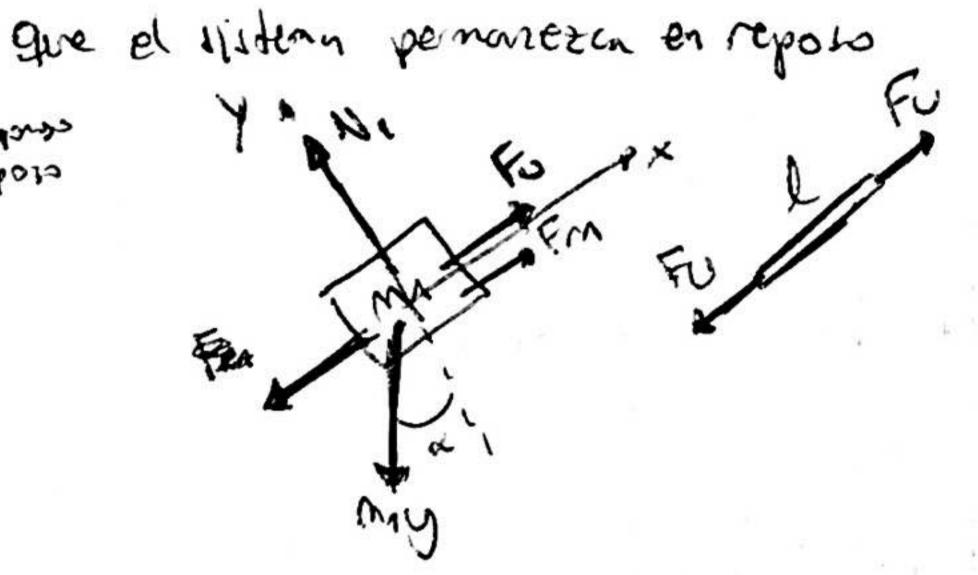
R= overen UT





Suporga que están en reporto y excuentre una relación entre finifiz, tra, ma y affr=fuerza dozaniente). Grafique la relación fizus fin Si Mez=0,6, Mez=0,9, mz=5ky, mz=10ky, x=30°. Dibye en el grafico underior la zona donde let rozamiento es estátrico

Diga si reprede con estos datos el estado de reposo que honos supresto d'Prede detenirer voi unlorer de fra y fra? Dign que unlorer prede tener de purn



mi (2) Fu+Fan-mnysonx=0 (4) N1-my cosa=0

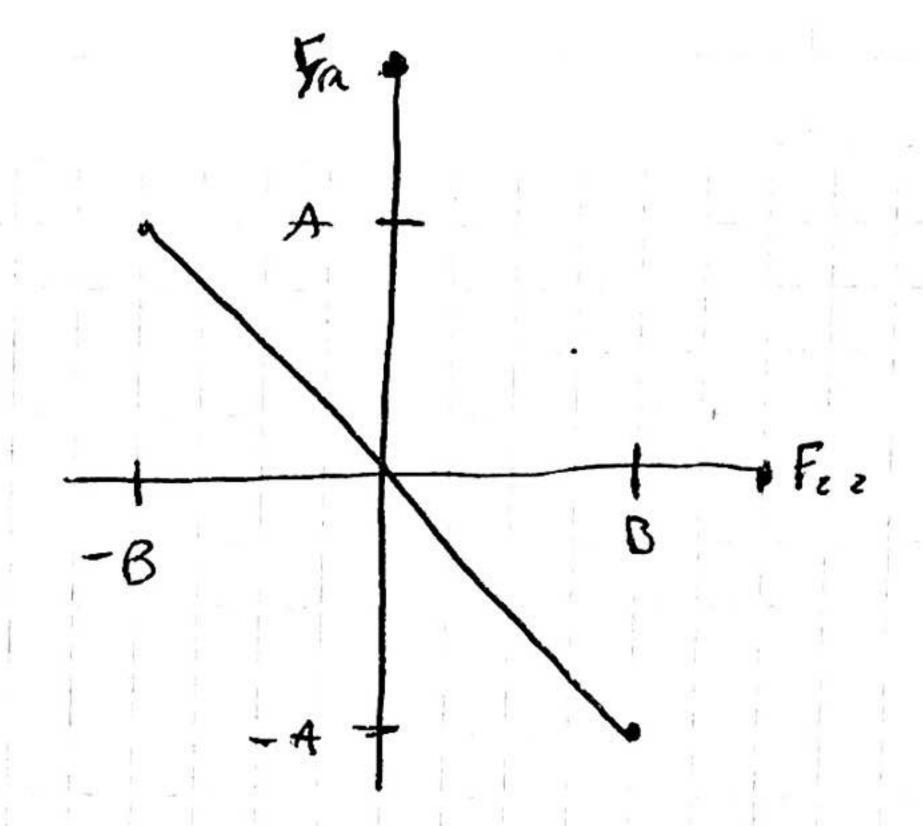
Mr Car Frz-Fu = Mzysnx = 0 (ý) Ni-nigrola co

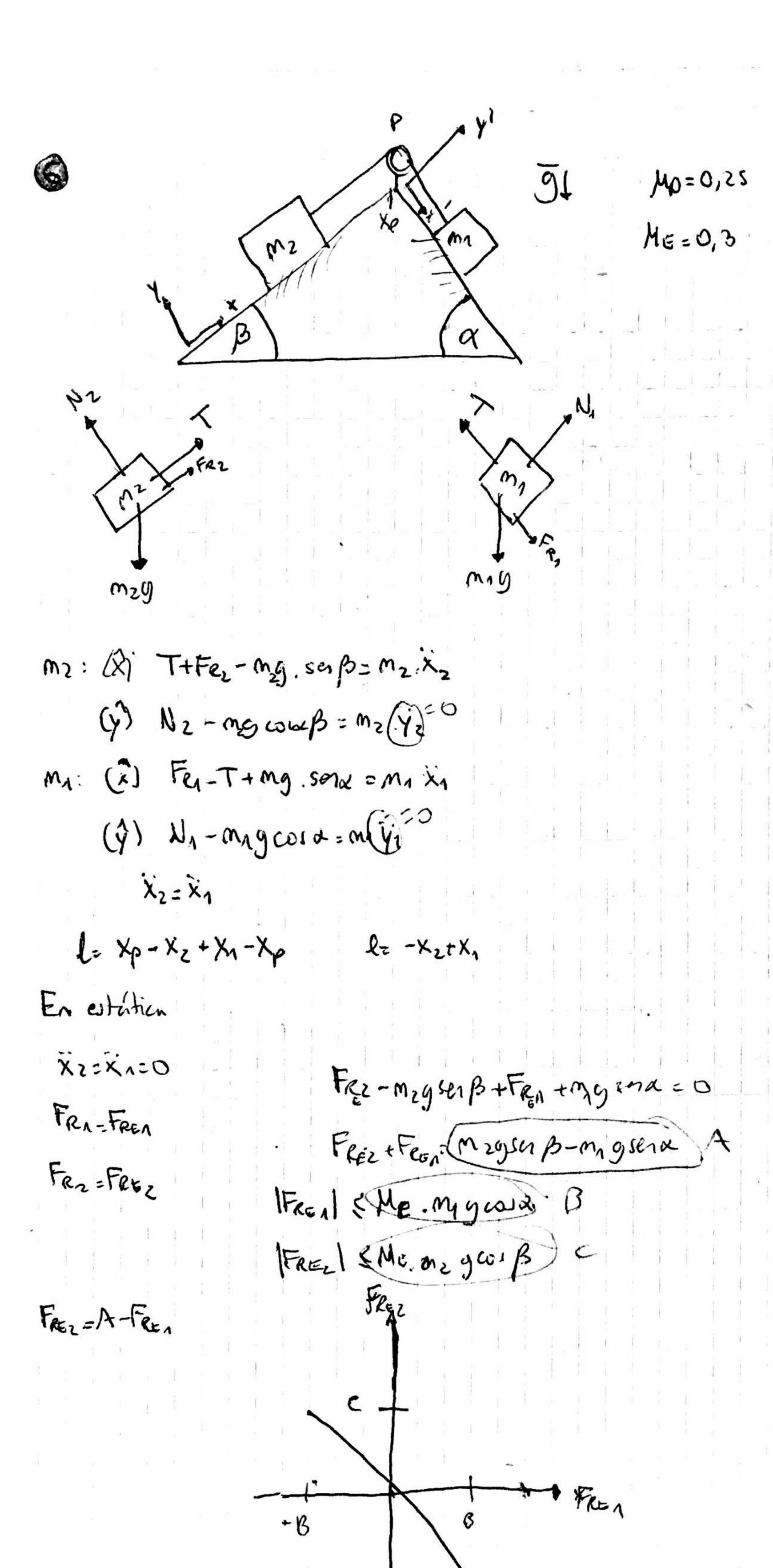
FRZ-MzgseA2 +FRZ-Mzgsend 20 FRAtFRZ = 1985enox (mn +mz)

Fel < Mg. Migrord (Fel & Mezmzgwxx

FRA + FRZ / SIF (1) + IF (2) S Heary good & Hezmagood

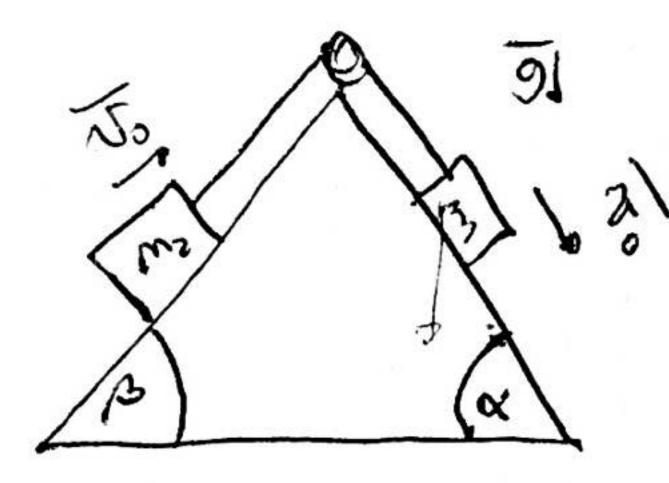
Fer = g sera(motor) - Fez lier 1 (Menngross) A liez 1 & Menngross) A





||FrentFree | Strent ||Free | SME. (magasix + magasis) |magsons-magsonx| SME g(massis + magasis) Sima=1ky, ma=2ky, a=60°, p=30° is portra en novel sidena? |Zky.sen30°-1ky.sen60°| SO,3. (1ky kn60°+2ky in 30°) |Tky - J3k| SO,3 (J3ky+1ky) O,13 SO,556

Si



11: (x) -Frozo -T+M1.9 sona = M1. X1

(ý) N1 = my g cosa

mz: (x)-Frozo +T-megrap = mz xe

(y) = Nz=mzgasB

R. X1

-2 Frozo +mgind-mgsmB=mixitmixi

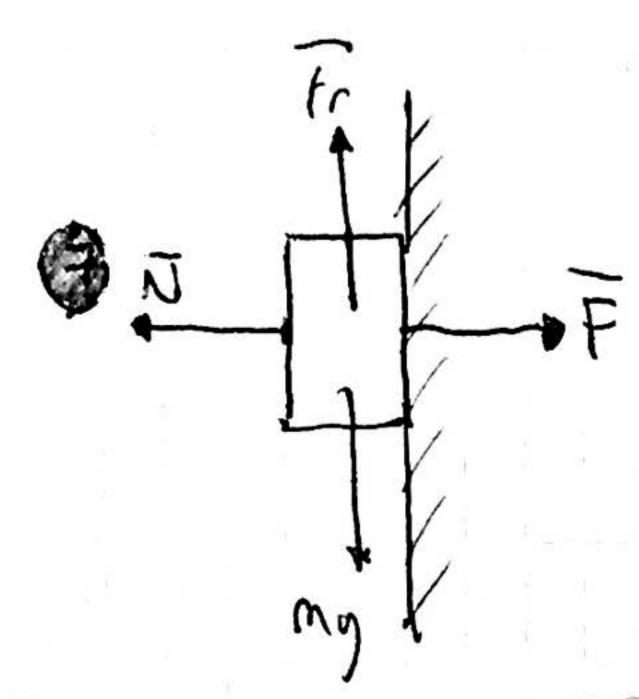
-2 -Mo. Myvosa - Monzgeoiß tingjend - mysonß = X1

MITMZ

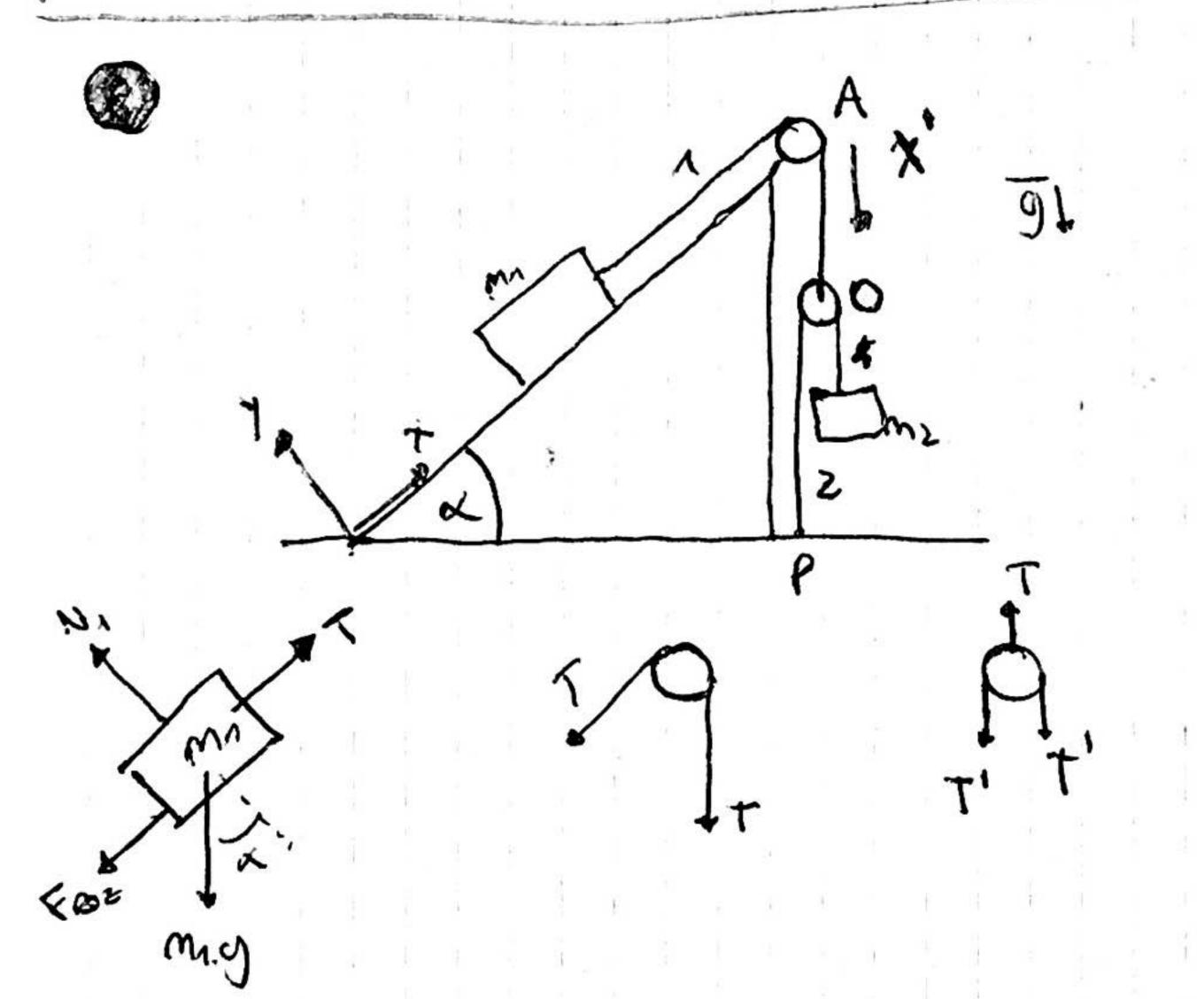
-1,225 kg.m,2 - 4,243524479 + 4,9 - 16,97404791 = -2,86m,2

3/4

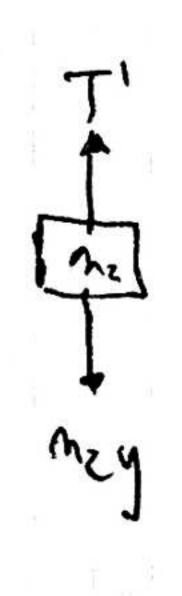
Para el otro ludo igual ità



Rta: El everpo está en reposo por que au jeso es esegnilibordo por la Fraz, Como fr proporcional a N, podemos lograr que re mueva al aumentos la Faplicada



Datic m, mz, Me, Mo



mn: (2) T-Froz-M1. gserd=M1. X1

(4) N1-M1. y cox = Ma (4) = M1. year x

 m_2 : (x) $m_2 g - T' = m_2 . \chi'_2$

Vinculo T=2T'

 $\begin{array}{lll}
\lambda_1 = X_A - X_1 + X_0' & \Rightarrow & 0 = -\dot{X}_1 + \dot{X}_0' & \Rightarrow & \ddot{X}_1 = \dot{X}_0' \\
\lambda_2 = \dot{X}_P - \dot{X}_0 + \dot{X}_2 - \dot{X}_0' & 0 = \dot{X}_2' - 2\dot{X}_0 \Rightarrow & \ddot{X}_2' = 2\dot{X}_0' \\
\ddot{X}_1(\dot{X}_2') = ?
\end{array}$

Si nz dexiendre con aceleración constante A:

c) Calabe ne. Diga justificando ne rter si la acceler con A prede ser tal que DINAMICA

-Frozo-Mysenx+Znzy=m1 + t2m2A - Mo. mr. gwsx - mr. graa - mr. = 2m2 A - 2m2 g SI A > 9 = 2A > 29 2A - 2g > Local as proper yet you give

- Homoux - mysera - max

2a - 2g) es pla main serin regalin y no predescas!

ii) x'o=h+voit + ad2 = x'o=h+ x'ot?

-Momy glosa - my sera + 2129 = x 1

-Momy glosa - my year + 2129 = x 1

my + 4mz

x'0= h+ (-Momy grosa-mysen x +2m2y) {2 2(m1+4m2)