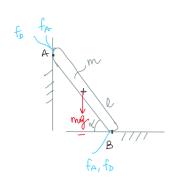
Esercizio con attrito

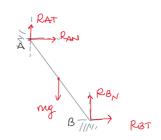
giovedì 14 novembre 2024 16:39



Noto: m, l, fa, fp, x = scala ferma fa in B

Volutione: le reasioni vincolari forze nei die appoggi in A e B

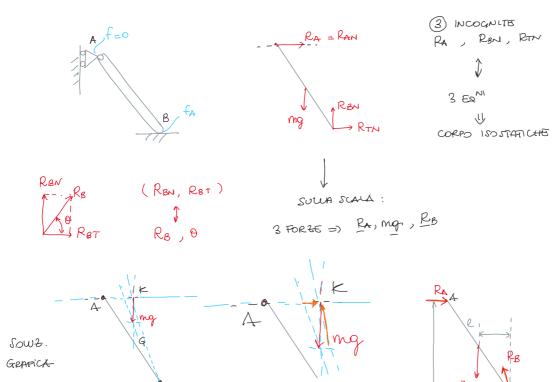
·) AFV =) (A), (B), APROGGIO CON PATITUD =) ATTRITO ADERGADEA



|RATI | FA |RAN | =) 2 INC |RBT | FA | RBN | =) 2 INC |A) INC

.) SI ? LINC VS 3 EQNI -> PROBUTINA IPERSTATIO

CASO I FA, fo INB



SOWZ. ANALITICA

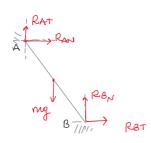
$$y: d Rey - mp = 0$$

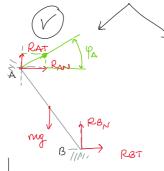
 $B \int \left(-P_A l sn \alpha + mg \frac{q}{2} cos \alpha = 0 \right)$

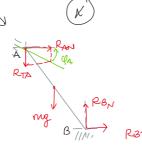
$$\begin{cases} RA = \frac{ng}{2tgx} = RBx \\ RBy = Ng \end{cases}$$



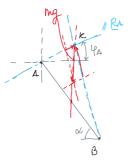
CASO III - INNESCO del moto In
$$A = |R_{TA}| = f_A |R_{NA}|$$







SOWZ. GRAPICA



Ran

$$X: \begin{cases} RA \cos PA - RBT = 0 \\ PAT \end{cases} = 0$$
 $Y: \begin{cases} RA \sin PA - mg + PBN = 0 \\ PAT \end{cases}$
 $RAT = FA PAN \end{cases}$
 $RAT = FA PAN$

$$R_{AN} = \frac{m_{Q}}{(1 + f_{0} t_{0} x)^{2}}$$

$$R_{BT} = R_{AN}$$

$$R_{BN} = m_{Q} \left(1 - \frac{f_{0}}{(1 + f_{0} t_{0} x)^{2}}\right)$$

