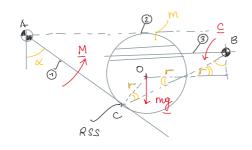
## Eserc. Compito esame - RSS

giovedì 14 novembre 2024 17:49



×= 30°

Noto:  $\alpha=60^{\circ}$ r
massa del 2 + disco omog.  $C \sim 30$  Noto,  $O=G_2$ 

Richiesto: 1) AFV, SCI, SEI

2) M per avere l'ep statico

PSE

DCL DEF Mg, M

C, M

3) Valuta famin per RSS

1) 
$$\star av$$
:  $ngdl = 3 \times 3 - 2 \times 2 - 1 \times 2 - \cdot 2 = 1$ 

AFV: 0 A, B & P = RAX, RAY & 4 INC.

RRX, RBY & 100 C.

RRN = RCP // 1/2 , MCP => 2 INC.

TONC =) ITCI ( fa INC) = 2 INC

REAZ. VINC. 8 INC.

1 AZIONE ATTIVA +1

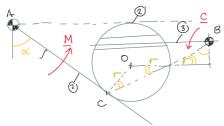
M

9 INC VS 9 ER

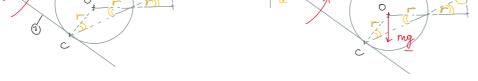
⇒) SET (PD)

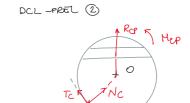
=) CORPI SCARICHI ? NO .\_ ma ST per [PSE]

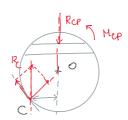


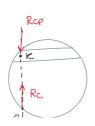


CASO I =) @ el SCARICO

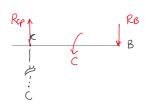




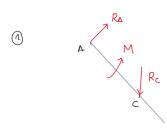


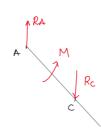


IAC. delle coppia



$$B^{\prime\prime}$$
  $C - R_{CP} \overrightarrow{B} = 0$   $R_{CP} = \frac{2}{5} \frac{C}{r} = R_{B} = R_{C}$ 

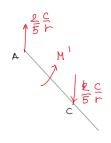


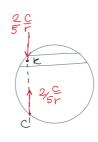


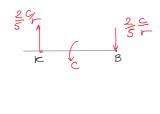
A) 
$$M - R_{c} \overline{Ac_{x}} = 0$$

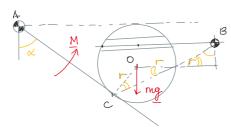
$$M = \frac{\sqrt{3}}{5} (2 + \sqrt{3}) C = M^{1}$$

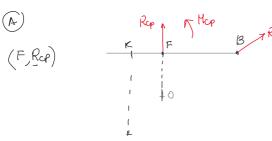
## DCL. DEF. CASO I



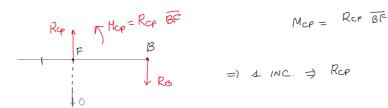




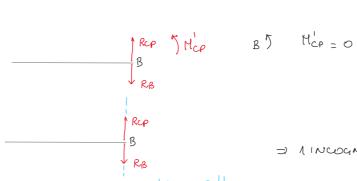




ICS) 
$$Rcp + Rs = 0$$
  
 $Rcp = -Rs$   
 $RcS$ )  $B$   $S$   $Rcp$   $BF$   $Rcp$   $Rcp$ 

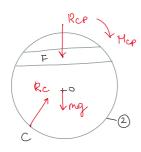


 $(\beta)$ 



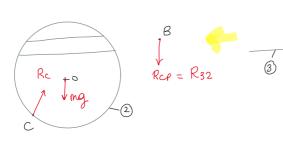
AC. della CP!

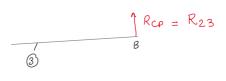
(A)



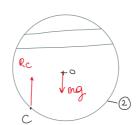




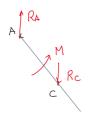




ICS) 
$$RcP + mg_1 + Re = 0$$
 $K : RcX = 0 \Rightarrow Rc = RcY$ 
 $Y : RcY - mg - RcP = 0$ 
 $Rc$ 

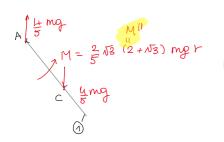


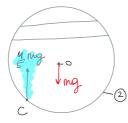
Ics) 85 - Re 
$$\overline{BCx}$$
 + rug  $\overline{BOx}$  = 0
$$\begin{cases}
R_{C} = mg \frac{\overline{BOx}}{\overline{BCx}} = \frac{4}{5} mg \\
R_{CP} = mg \frac{\overline{BOx}}{5}
\end{cases}$$

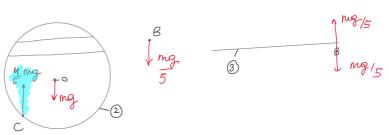


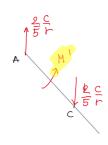
$$RA = -Rc = U ng \dot{y}$$

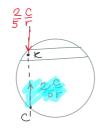
RA = 
$$-Rc = U mg \dot{j}$$
  
 $Rc$  AS  $M - Rc$   $ACx = 0$   
 $M = M^{\parallel} = \frac{2}{5} \sqrt{3} (2 + \sqrt{3}) mg r$ 

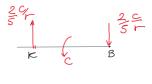












$$\underline{Rc} = \underline{Rc} + \underline{Rc} = \left(\underbrace{2}_{5} + \underbrace{4}_{7} \text{mg}\right) \underbrace{3}_{2}$$

1) OSS. GEOM.  $P_{AMIN} = 30^{\circ}$ 2)  $R_{CT} = f_{A-MIN} R_{CN}$