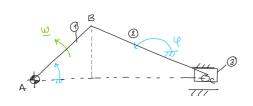
Esercit: An Cinem differenziale MDS

giovedì 21 novembre 2024 17:54



OBIETTIVO :

- .) Valutare 1 de ogni punto
- ·) cr del moto (auroluto) di geni corpo

 $\frac{Noto}{AB} = r = 68.1 \text{ mm}$

BC = l = 164 mm

0(F) = 45°

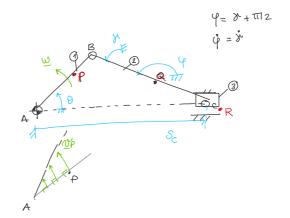
9(4) = 6300 rpm 2 660 roolls

(€) = 0 rad 152

<u>w</u> - 0 K

ANALISI VELOCTIA

G1 = A



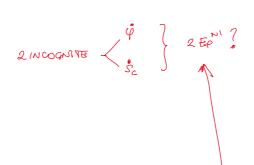
$$\overset{\vee}{\nabla}Q = \overset{\vee}{\nabla}B + \overset{\vee}{W}_{2} \wedge \overset{\vee}{B}Q \qquad (1)$$

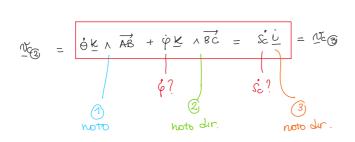
$$\overset{\vee}{\nabla}Q = \overset{\vee}{\nabla}B = \overset{\vee}{\nabla}B \qquad (2)$$

$$\overset{\vee}{\nabla}Q = \overset{\vee}{\nabla}B = \overset{\vee}{\nabla}B \qquad (4)$$

$$\overset{\vee}{\nabla}Q = \overset{\vee}{$$

FFC





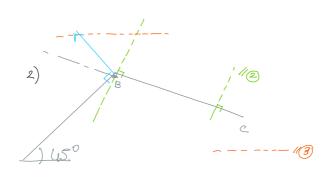
2 INCOG.

SOWZ. GRAFICA



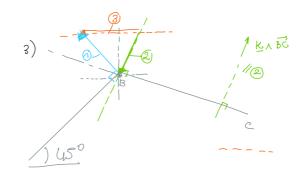
TRIANGOLO
DELLE VELDUTAI

SOMSTONE

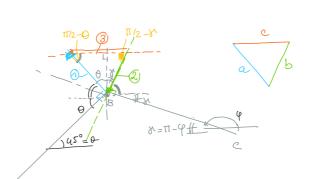


- 1) disegno il vettore noto
- 2) riporto ivettori di direzuone nota fulle estremutal del vettore noto
- 3) chudo il A
- 4) valutare Il SEGNO DELLE

$$\varphi > \langle \circ \rangle$$



SOW LIONE OF OME TRUCA



$$\frac{a}{\sin(\pi/2-\delta')} = \frac{b}{\sin(\pi/2-\theta)} = \frac{c}{\sin(\theta+\delta')}$$

$$|\dot{\varphi}| = -\frac{\dot{\theta}r}{e} \frac{\cos\theta}{\cos\varphi} > 0 \Rightarrow$$

$$|\mathring{\mathcal{L}}| = \frac{\dot{\theta} r}{\theta} \sin(\theta - \theta) > 0 = 0$$

$$\dot{\varphi} = -|\dot{\varphi}| = \frac{\dot{\varphi}}{\dot{\varphi}} = \frac{\dot{\varphi}}{\dot{\varphi}} = -202, \mp \text{ rod/s}$$

$$\hat{s}_{c} = -|\hat{s}_{c}| = -\frac{\hat{o}r}{\cos\varphi} \sin(\theta - \varphi) = -41.5 \text{ m/s}$$

Note φ da: $r \sin \theta = \ell \sin \varphi$ $\varphi = arc sen \left(\frac{r}{\ell} \sin \theta \right)$

SOWSIONE ANALITICA

$$\vec{BC} = \ell \begin{bmatrix} -\cos q \\ -\sin q \end{bmatrix}$$



Cv2

ANALISI DELLE ACCELERAZIONI

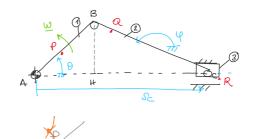
$$\frac{\alpha_{P0}}{=} = \frac{\alpha_A + \dot{w}_A A P}{\dot{w}_A A P} - \dot{w}^2 A P$$

$$= \dot{0} \dot{K}_A A P - \dot{0}^2 A P$$

$$= \dot{0}^2 A P$$

$$= \dot{0}^2 A P$$

$$= \dot{0}^2 A P$$



$$\frac{a_{QQ}}{2} = a_{B} + w_{2} \wedge \overrightarrow{BQ} - w_{2}^{2} \overrightarrow{BQ}$$

$$\frac{a_{QQ}}{2} = a_{B} \otimes \overline{\qquad \qquad \qquad }$$

$$\frac{a_{QQ}}{2} = a_{B} \otimes \overline{\qquad \qquad }$$

$$\frac{a_{QQ}}{2} = a_{Q} \otimes \overline{\qquad }$$

$$\frac{a_{QQ}}{2} = a_{Q} \otimes \overline{\qquad }$$

$$\frac{a_{QQ}}{2} = a_{Q} \otimes \overline{\qquad$$

$$\frac{a_{R(3)}}{dt} = \frac{d}{dt}(\dot{s}_{c}\dot{v}) = \frac{\ddot{s}_{c}\dot{v}}{2}$$

$$\frac{a_{c@}}{TR} = \frac{a_{c@}}{TRMETI}.$$

$$(MS^{2}) 2,96 \text{ AD}^{4}$$

$$-\dot{\theta}^{2} \overrightarrow{AB} + \ddot{\varphi} \underbrace{\mathbb{K}}_{A} \overrightarrow{BC} - \dot{\varphi}^{2} \overrightarrow{BC} = \overset{\circ}{Sc} \dot{U}$$

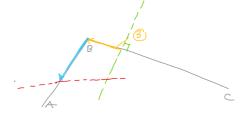
$$noto \qquad noto \text{dur}$$

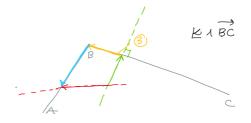
$$1 \qquad 2 \qquad 3 \qquad \triangle$$

ÿ? 5°7

SOWELONE GRAFICA

-> POUGONO DELLE ACCELERAZIONI





SOW SIONE ANALITICA

$$-\frac{\dot{\phi}^2}{\dot{\phi}^2} + \ddot{\phi} = \ddot{\phi} + \ddot{\phi} = \ddot{\phi} + \ddot{\phi} = \ddot{\phi} =$$

$$-\frac{12}{9}\begin{bmatrix}\cos\theta\\\sin\theta\\0\end{bmatrix}+\frac{1}{9}\begin{bmatrix}\sin\theta\\-\cos\theta\\0\end{bmatrix}-\frac{1}{9}\begin{bmatrix}-\cos\theta\\-\sin\theta\\0\end{bmatrix}=\frac{1}{9}\begin{bmatrix}1\\0\\0\end{bmatrix}$$

$$\times: \qquad \ddot{q} = \frac{l \dot{q}^2 \sin q - r\dot{\theta}^2 \sin \Theta}{l \cos q}$$

10 in our ring sino