

- VIBOLI

SISTEMA DI RIFERIMENTO PIANO  
 $xoy$

TRASLAZIONE

PATIVU

$y$

$x$

$0$

$\pi$

$y$

$x$

$0$

MANICOTTO

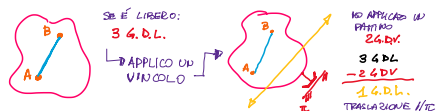
TRASLAZIONE

PISTONE

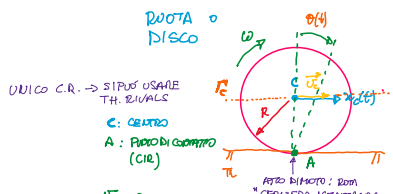
3D  $\rightarrow$  SEZIONE PIANA

MANICOTTO

1 CR

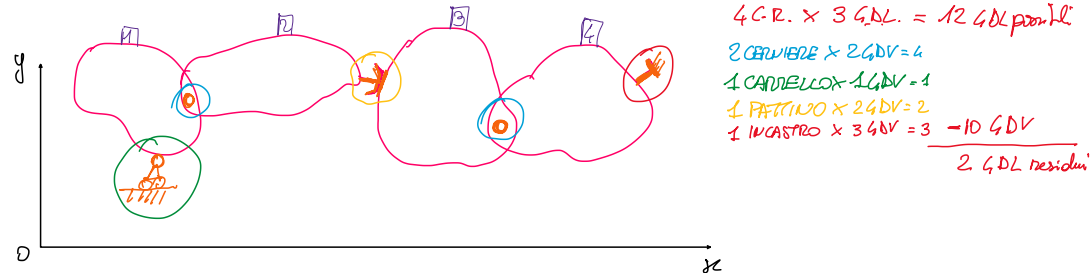
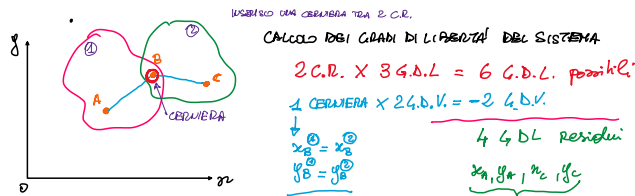
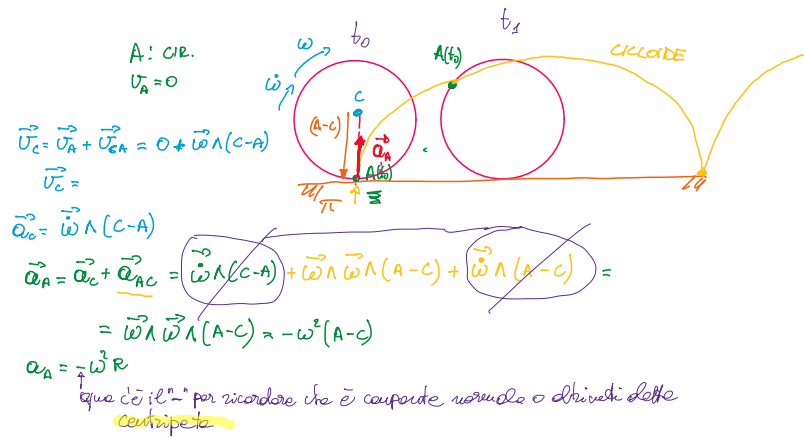
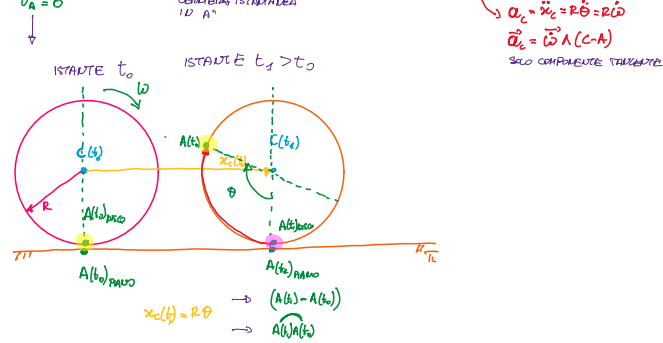


↳ CINEMATICA DELLA RUOTA (DISCO)



VINCOLO DI PUNTO ROTOLAMENTO  $\rightarrow$  RUOTA RISTILI SENZA STRASCALARE  
 $x_c = R \theta \rightarrow \left(\frac{d}{dt}\right) \rightarrow \dot{x}_c = \dot{\theta} = R \dot{\theta} = R \omega$   
 VALE ANCHE

$\vec{U}_C = \vec{\omega} \wedge (C - A)$   
SEMPRE  $\parallel \pi$   
 $\frac{d}{dt}$   
TRASFORMAZIONE DI C  
 $E' \parallel \pi$



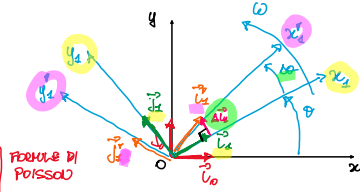
Formula di Poisson

$$\frac{d\vec{v}_z}{dt} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{v}_z}{\Delta t} =$$

$$\frac{d\vec{v}_z}{dt} = \vec{\omega} \wedge \vec{v}_z$$

$$\frac{d\vec{v}_z}{dt} = \vec{\omega} \wedge \vec{v}_z$$

Formula di Poisson



S (noy) sistema fisico  
 $S_2(x, y, t)$  campo in 0  
 $S_1(x, y, t)$  S\_2 dopo dt

$$\left. \begin{aligned} \vec{v}_z &= e^{i\theta} \\ \vec{v}_z &= i e^{i\theta} = e^{i(\theta + \frac{\pi}{2})} \end{aligned} \right\} \frac{d}{dt} \rightarrow \begin{aligned} \frac{d\vec{v}_z}{dt} &= i \dot{\theta} e^{i\theta} = \\ \frac{d\vec{v}_z}{dt} &= -\dot{\theta} e^{i\theta} \end{aligned}$$