HOTO UNIFORHE

$$\bullet \quad a_{m} = \frac{1}{\Delta t}$$

$$\bullet x = x_0 + yt \qquad (t_0 = 0)$$

$$\bullet \quad a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$$

$$\bullet v = \frac{dx}{dt}$$

HOTO UNIFORHEMENTE ACCELERATO

$$\bullet \quad a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$$

$$= x = x_0 + v_0 t + \frac{1}{2} a t^2$$

$$v^2 = v_0^2 + 2a \left(x - x_0\right)$$

$$\bullet v = \frac{dx}{dt}$$

$$\bullet \times - \times_{\circ} = \int_{t}^{t} v \, dt$$

$$v_m = \sum_{i=1}^m |x_i|$$

HOTO BIDIHENSIONALE

$$\bullet \overrightarrow{v_m} = \underline{\sqrt{z}}$$

$$\underline{\Delta t}$$

$$\bullet \overrightarrow{v} = \frac{d\overrightarrow{v}}{dt}$$

• ASSE
$$\times$$
 $\begin{cases} V_x = V_{0x} \\ x = V_{0x} t \end{cases}$

•
$$y = x t_{om} \theta_0 - \frac{1}{2} \frac{x^2}{V_{ox}}$$
 TRAIE TTORIA

MOTO CIRCOLARE UNIFORME

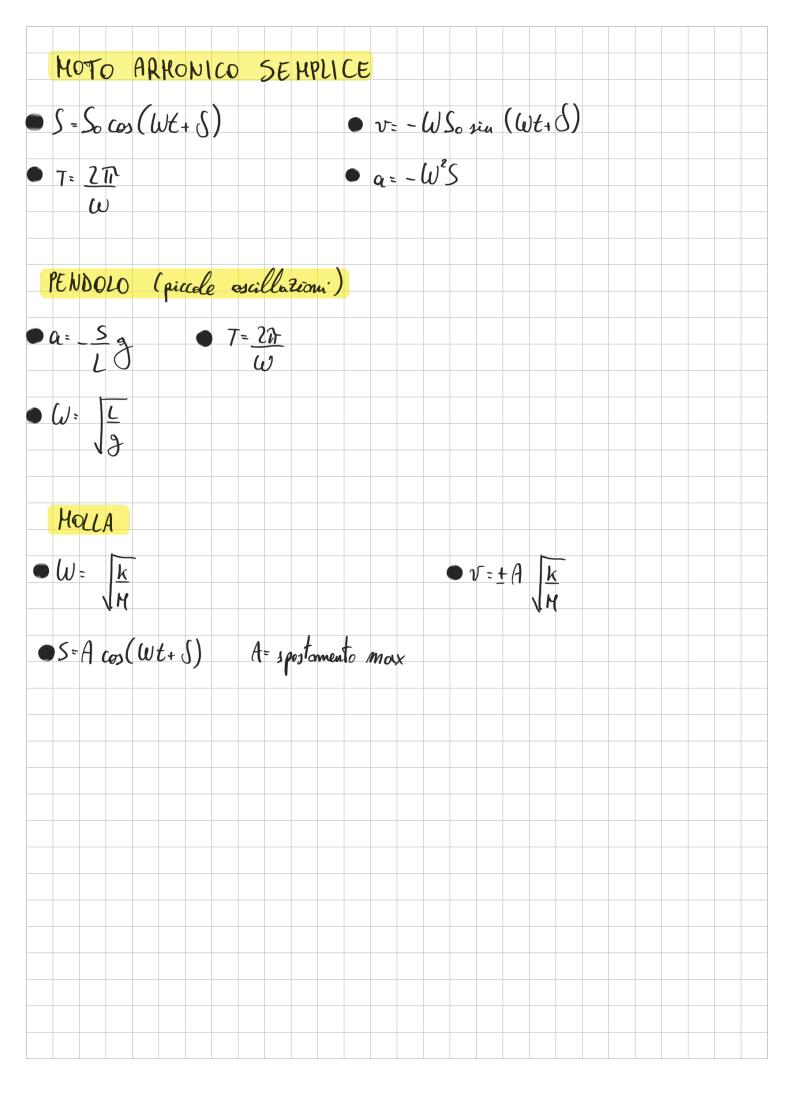
$$v_1 = 0$$
, $v_1 = v$, $a_c = -\frac{v^2}{2}$, $a_T = \frac{dv}{dt}$

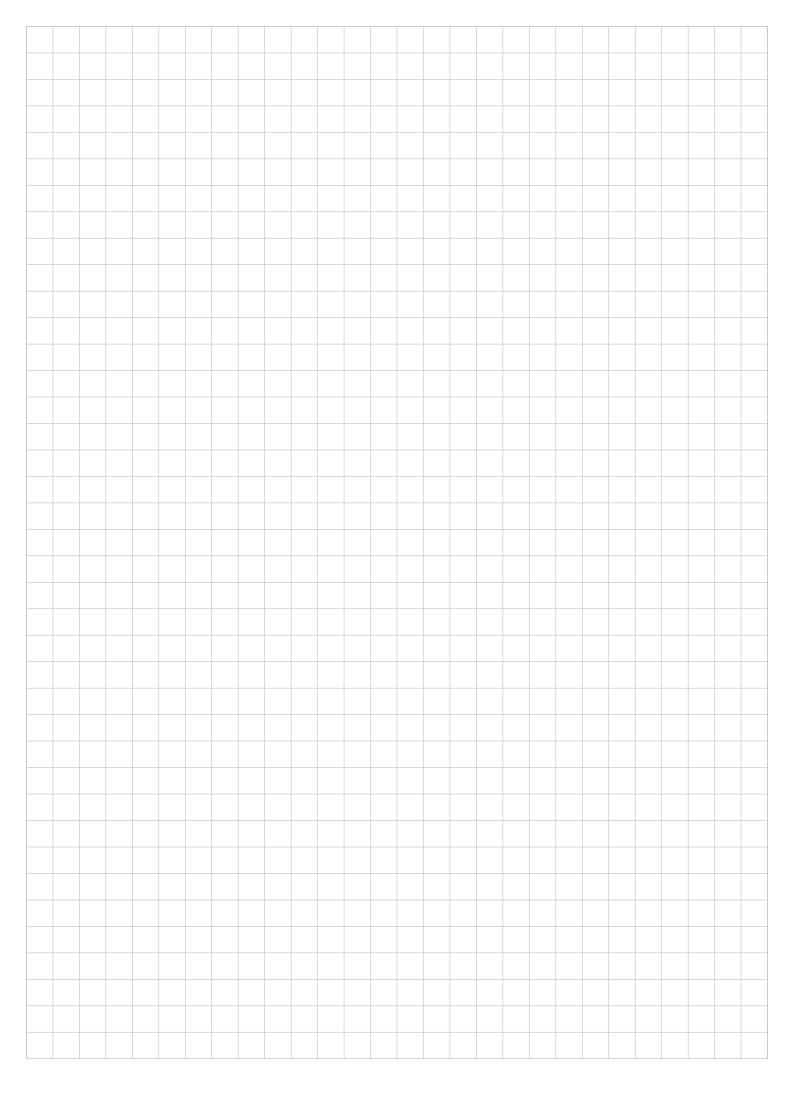
$$\bullet \overrightarrow{a} = (a_{c}, a_{T})$$

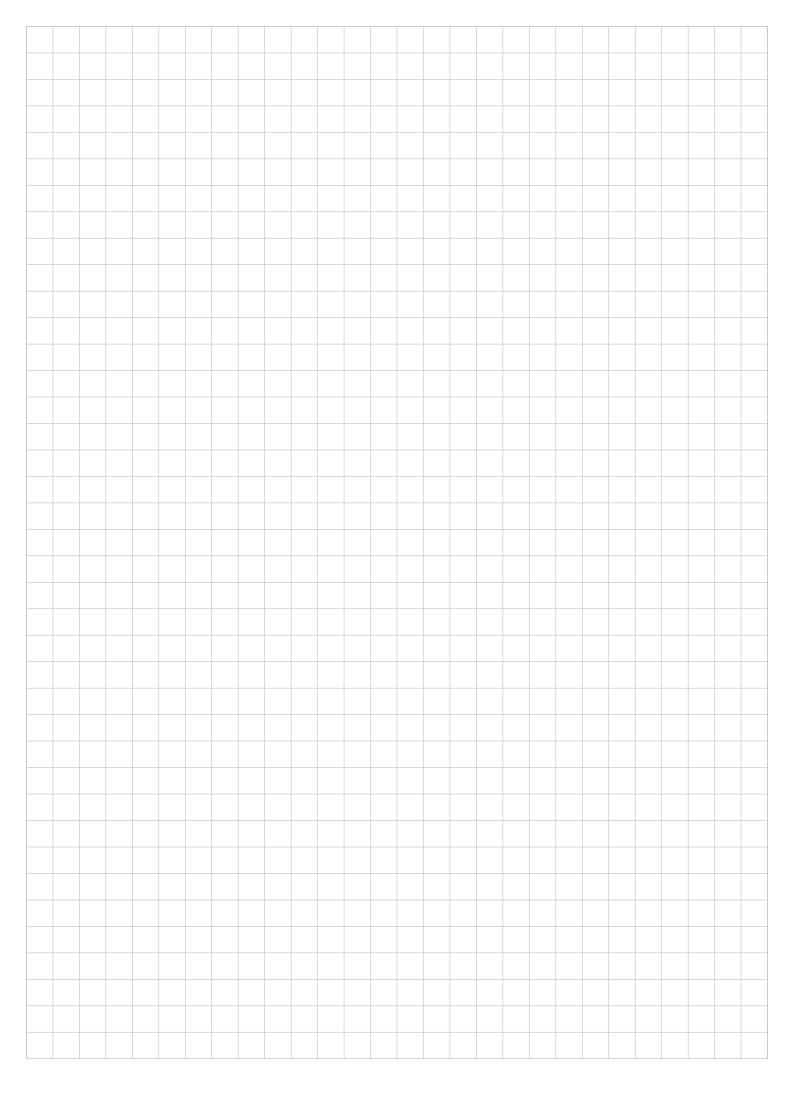
$$\bullet a_c = \frac{v^2}{2} = \frac{4\pi^2}{T^2}$$

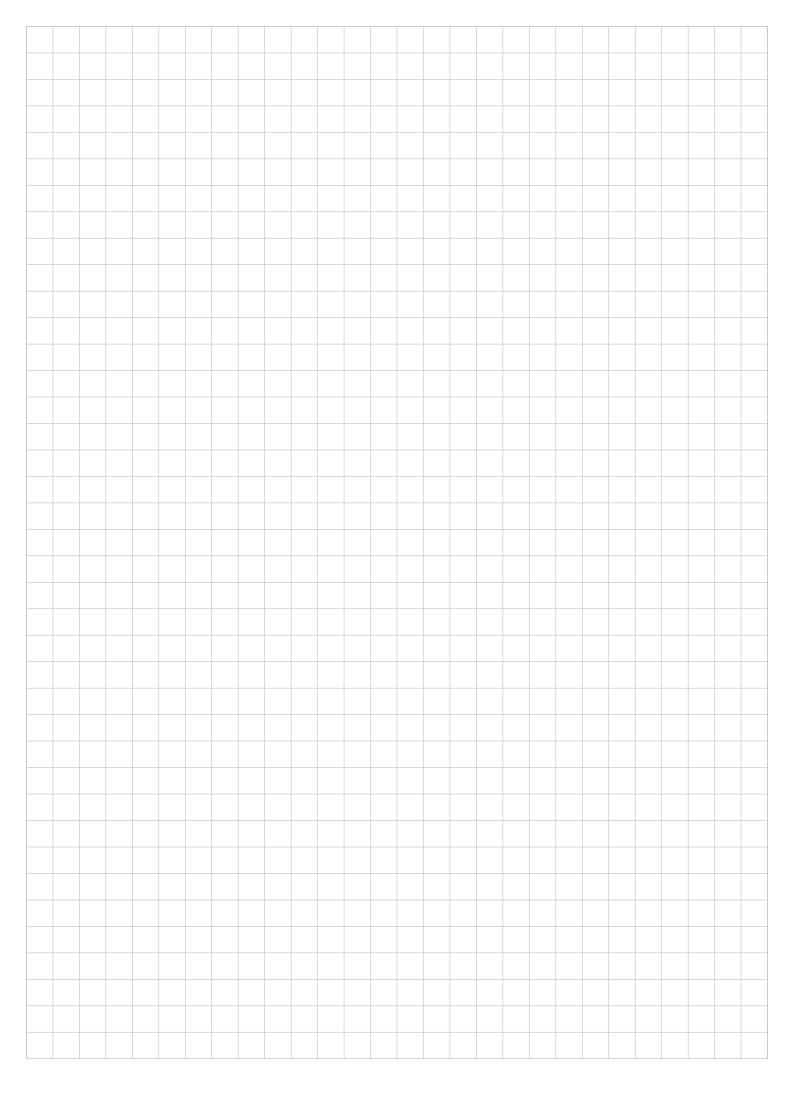
$$T = \frac{1}{R} = \frac{2\pi n}{v}$$

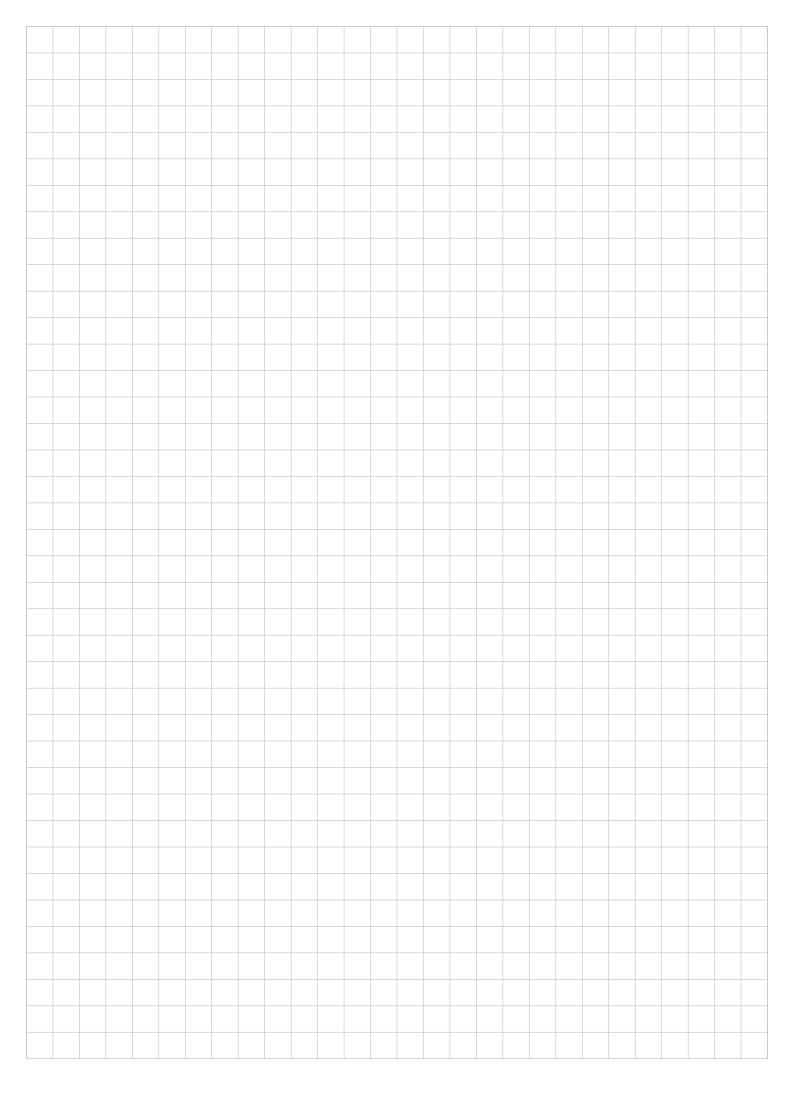
$\bullet \theta = \underline{S}$		ν= W 1	
• W _m = <u>A</u> 0 1 1 <u>1</u> 1		a=w ² r T=2π (con θ=	2n e t=T)
HOTO CIRCOLA	ARE UNIFORME	HENTE ACCELERA	to
Stesse leggi	del moto unific	memente accelerato	
$v \rightarrow W S \rightarrow \theta$ $\bullet a = \sqrt{a_{\ell}^2 + a_{\ell}^2}$			N
$\bullet W = W_0 + \Delta t$ $\bullet \theta = \theta_0 + W_0 t + \frac{1}{2}$	l at ²		
• W= W2 + Za (1	2 (%-0)		
055 Le leggi prane	angoloní samo d	lato dalle lezzi e	ronic lineani
DIVISO 2			
• v= GH R	velocità d	à hugo	











• $\vec{F} = \frac{d}{dt} \vec{P}$ • $\vec{F} \Delta t = \Delta \vec{P}$ • $\vec{F} = \Delta t = \Delta \vec{P}$ • $\vec{F} = \Delta t = \Delta $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c c} \hline \mathbf{E}_{e} = 1 \\ \hline 2 \end{array} $ $ \begin{array}{c c} \hline \mathbf{E}_{e} = 1 \\ \hline \mathbf{E}_{e} = $
• U= G mH (poteuriale grouitariande)

SISTEMA BI PUNTI $\vec{z}_{cH} = \vec{L} \mathcal{E} m_{\tilde{t}} \vec{z}_{\tilde{t}}$ $\vec{z}_{cH} = \vec{L} \mathcal{E} m_{\tilde{t}} \vec{z}_{\tilde{t}}$ $\vec{z}_{cH} = \vec{L} \mathcal{E} m_{\tilde{t}} \vec{z}_{\tilde{t}}$ $\vec{v}_{cH} = \vec{L} \mathcal{E} m_{\tilde{t}} \vec{z}_{\tilde{t}}$
• $\vec{l}_{cr} = 1 \int \vec{r} dm$ corpo rigido • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int m_i \vec{v}_i^2$ • $k = 1 \int \vec{v}_{cr} H + 1 \int $
• $K = \frac{1}{2}W^2 E m \bar{z}_i^2$ energia cinetica rotazionale • $I = E m \bar{z}_i^2$
$\bullet I = E m z_{i}^{2}$
$\bullet I = E m z_{i}^{2}$
■ K= 1 H v² 1 T (1)² 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
• $K = 1 H v_{cm}^2 + 1 I W^2$ eurgia cinetica roto trokatoria
■ I = Ic + Hd² teoreum dof: an parallel:
Detarche Attended A acce at Suggestion
ROTAZIONE ATTORNO AD ASSE DI SINHETRIA
• I= βHR² • I= 1 PAL² asta asse centrale
\bullet $T = \frac{1}{3}ML^2$ osta one estremo
2 spera piena 1 mello
2 zerscio sperico



(10		A (1).	14.11	(-01	10		
ΔQ ΔT		ДО	Δυρ+ΔΙ	(= @-L	1 princip	is lorpe	in movine
c= C m		η=	L	Qc _ Tc Qh Th			
U= W-K			e Q f				
) U= W + K		Cop	L				
ΔU=Q-L	1º principio						

