* **Centre of Mass :** $\vec{r} = \dfrac{\Sigma m_i \vec{r_i}}{\Sigma m_i}$ Position of cm is independent of coordinate system.

The position of cm changes the position only under the translatory motion. No affect of rotatory motion. If origin is at centre of mass, then $\Sigma_i m_i \vec{r_i} = 0$.

$$\vec{v}_{cm} = \dfrac{\Sigma m_i \vec{v_i}}{\Sigma m_i} \quad ; \quad \vec{a}_{cm} = \dfrac{\Sigma m_i \vec{a_i}}{\Sigma m_i}$$

$$\vec{F} = M \vec{a}_{cm} = M \dfrac{d^2 \vec{r}_{cm}}{dt^2}$$

If external force = zero, then $M \dfrac{d \vec{v}_{cm}}{dt} = 0$

$$\Rightarrow \vec{v}_{cm} = \text{constant}$$

* **Angular Displacement :** $\vec{\theta} = \dfrac{\vec{s}}{r}$ [unit − radian]

$\vec{s} = \vec{\theta} \times \vec{r}$ Dimension $[M^0 L^0 T^0]$

Angular velocity : $\vec{\omega} = \dfrac{d\vec{\theta}}{dt} \quad ; \quad \omega_{av} = \dfrac{\Delta \theta}{\Delta t}$

$T \to$ Time period

$f \to$ frequency.   (radian/sec). $[M^0 L_0 T^{-1}]$

$\vec{v} = \vec{\omega} \times \vec{r} \quad | \quad \omega = \dfrac{2\pi}{T} = 2\pi f$

Angular acceleration: $\vec{\alpha} = \dfrac{d\vec{\omega}}{dt} = \dfrac{d^2 \vec{\theta}}{dt^2} \quad [rad/sec^2]$

$\vec{\alpha} \times \vec{r} = \vec{a}$

$\alpha_{av} = \dfrac{\Delta \omega}{\Delta t} \quad\quad [M^0 L^0 T^{-2}]$

* **Equ^n's** : (when α = cons)

i) $\theta = \dfrac{\omega_1 + \omega_2}{2} t$

ii) $\alpha = \dfrac{\omega_2 - \omega_1}{t}$

iii) $\omega_2 = \omega_1 + \alpha t$

iv) $\theta = \omega_1 t + \dfrac{1}{2} \alpha t^2$

v) $\omega_2^2 = \omega_1^2 + 2\alpha \theta$

vi) $\theta_{nth} = \omega_1 + (2n-1) \dfrac{\alpha}{2}$

vii) $\omega d\omega = \alpha d\theta$ (when α not constant)

(analogy to linear motion)

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