

Simple Harmonic Motion :

30.01.2023,

$$F = -ky \text{ --- (i)}$$

$$F = ma' \text{ --- (ii)}$$

$$ma' = -ky$$

$$a' = \frac{-ky}{m} \text{ --- (iii)}$$

$$a' = \frac{d^2y}{dt^2}$$

$$\therefore \text{ (iii) } \Rightarrow \frac{d^2y}{dt^2} = -\frac{ky}{m}$$

$$\text{or, } m \frac{d^2y}{dt^2} = -ky$$

$$\text{or, } m \frac{d^2y}{dt^2} + ky = 0$$

$$\text{or, } \boxed{\frac{d^2y}{dt^2} + \frac{ky}{m} = 0}$$

$$\text{or, } \boxed{\frac{d^2y}{dt^2} + \omega^2 y = 0}$$

$$v = \frac{dy}{dt} \quad a = \frac{dv}{dt} = \frac{d^2y}{dt^2}$$



$$\omega^2 = \frac{k}{m}$$

$$\text{or, } \omega = \sqrt{\frac{k}{m}}$$

general resolution of differential equation of simple harmonic motion :-

$$\frac{d^2y}{dt^2} = -\omega^2 y \text{ --- (i)}$$

multiply by $2 \frac{dy}{dt}$ -

$$2 \frac{dy}{dt} \cdot \frac{d^2y}{dt^2} = -\omega^2 y \cdot 2 \frac{dy}{dt}$$

$$\text{or, } 2 \frac{dy}{dt} \frac{d^2y}{dt^2} = -2\omega^2 y \frac{dy}{dt}$$

$$\text{or, } \left(\frac{dy}{dt}\right)^2 = -\omega^2 y^2 + c \text{ --- (ii) [Integration] } \left| \frac{d}{dt} \left\{ \left(\frac{dy}{dt}\right)^2 \right\} = 2 \frac{dy}{dt} \cdot \frac{d^2y}{dt^2} \right|$$

At maximum displacement (when $y = a$)

$$\frac{dy}{dt} = 0$$

$$\text{or, } 0 = -\omega^2 a^2 + c$$

$$\text{or, } c = \omega^2 a^2$$

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