

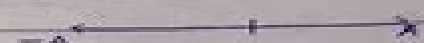
$$x = \frac{a}{2} \quad \phi = \frac{\pi}{6} \Rightarrow \sin \phi = \frac{1}{2} \Rightarrow \phi = \frac{\pi}{6} \text{ or } \frac{5\pi}{6}$$

$$\phi = \frac{5\pi}{6} \in \text{moving away from } x = \frac{a}{2} \Rightarrow \phi = \frac{\pi}{6}$$

$$a = -\omega^2 x$$

$$\frac{d^2 x}{dt^2} + \omega^2 x = 0$$

$$\text{let } x = A \sin(\omega t + \delta)$$



$$\frac{d^2 \theta}{dt^2} + \omega^2 \theta = 0 \quad \theta = \theta_0 \sin(\omega t + \delta)$$

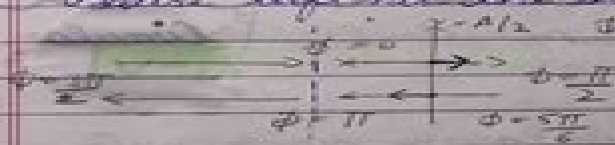
$$\frac{d^2 \theta}{dt^2} = -\omega^2 \theta$$



Angular S.H.M

- Characteristic equation of S.H.M: $\theta = \omega t + \delta$
- $x = A \sin(\omega t + \delta)$ → Initial phase $\phi = \omega t + \delta$
- parton angular frequency phase
- $A = \text{amplitude} \Rightarrow x = A \sin(\phi)$

Phase defines the status of the particle



- # What is the phase when $x = \frac{A}{2}$
- $x = A \sin(\phi) \quad \frac{A}{2} = A \sin \phi$
- $\phi = \frac{\pi}{6}, \frac{5\pi}{6}$
- # ω, A, x moving along \Rightarrow it is at $x = \frac{A}{\sqrt{2}}$ moving towards mean. Instantaneous equation?
- $\Rightarrow x = A \sin(\omega t + \delta)$
- $\frac{A}{\sqrt{2}} = A \sin \delta \Rightarrow \delta = \frac{\pi}{4}, \frac{3\pi}{4}$
- $\Rightarrow x = A \sin(\omega t + \frac{3\pi}{4})$

Oscillationi Notes Hsc

R Sandford



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