

Physics short notes

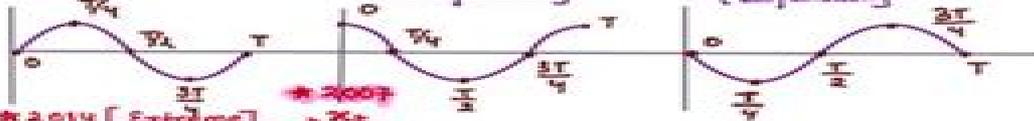
Simple Harmonic Motion

SHM Quantities

★ Body starts oscillating from mean position ($t=0, x=0$) \Rightarrow \odot Is a Sin function $\left[t = T \cdot \frac{\theta}{2\pi} \right]$

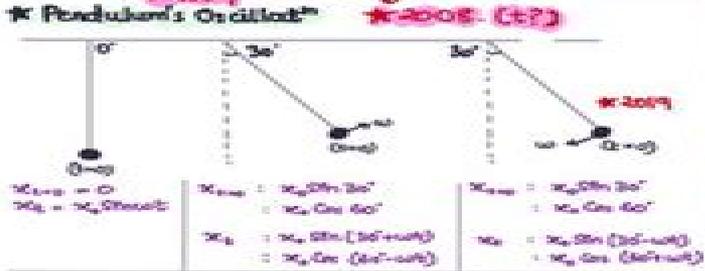
$x = A \sin \omega t$ (Sin function) $v = \frac{dx}{dt} = A\omega \cos \omega t$ (Cos function) $a = \frac{dv}{dt} = -A\omega^2 \sin \omega t$ (-Sin function)

$v_{max} = A\omega$ $a_{max} = A\omega^2$



★ 2014 [Extreme] ★ 2007

θ	0°	30°	45°	60°	90°	120°	180°	240°	270°	360°
x	0	$(\frac{A}{2})$	$(\frac{A}{\sqrt{2}})$	$(\frac{\sqrt{3}A}{2})$	A	$(\frac{\sqrt{3}A}{2})$	0	$(-\frac{\sqrt{3}A}{2})$	$-A$	0
v	$(\frac{A\omega}{\sqrt{2}})$	$(\frac{A\omega}{2})$	$(\frac{A\omega}{\sqrt{2}})$	$(\frac{A\omega}{2})$	0	$(-\frac{A\omega}{2})$	$(-\frac{A\omega}{\sqrt{2}})$	$(-\frac{A\omega}{2})$	$(\frac{A\omega}{\sqrt{2}})$	$(\frac{A\omega}{2})$
a	$(\frac{A\omega^2}{\sqrt{2}})$	$(\frac{A\omega^2}{2})$	$(\frac{A\omega^2}{\sqrt{2}})$	$(\frac{A\omega^2}{2})$	0	$(-\frac{A\omega^2}{2})$	$(-\frac{A\omega^2}{\sqrt{2}})$	$(-\frac{A\omega^2}{2})$	$(\frac{A\omega^2}{\sqrt{2}})$	$(\frac{A\omega^2}{2})$



★ Force in SHM:

$F_s = m \cdot \ddot{x}$
 $F = -m \cdot \omega^2 x = -kx$

$\omega = \sqrt{\frac{k}{m}}$

If a mass 'm' is connected to a spring of spring constant, k.

$\ddot{x} = -\omega^2 x$
 $= -\frac{k}{m} x$

★ 2009
★ 2012

★ Energies in SHM - Conserved in SHM

$KE_t = \frac{1}{2} m v_t^2$
 $KE_x = \frac{1}{2} k (A^2 - x^2)$

$PE_t = \frac{1}{2} k x_t^2$
 $PE_x = \frac{1}{2} k x^2$

Total Energy = $\frac{1}{2} k A^2 = KE_{max}$

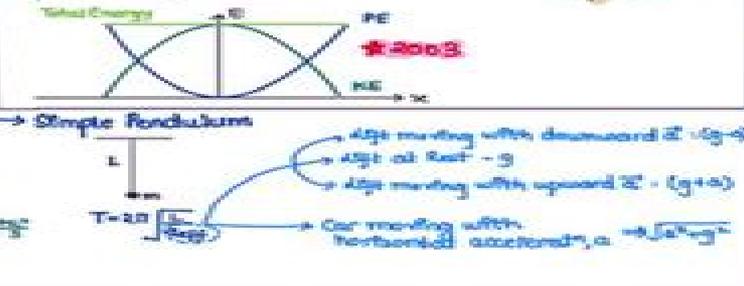
If time period of SHM is T

of Kinetic Energy will be $\frac{1}{2}$

of Potential Energy will be $\frac{1}{2}$

of total Energy will be infinite

Pendulums



SHM : Super-Imposed

★ $y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin(\omega t + \phi)$ $\Rightarrow y_{res} = \sqrt{y_1^2 + y_2^2 + 2y_1 y_2 \cos \phi}$

★ 2015 ★ 2009

$\Rightarrow y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin(\omega t + 60^\circ)$
 $a_{res} = \sqrt{a_1^2 + a_2^2 + 2a_1 a_2 \cos(60^\circ)}$

$\Rightarrow y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin(\omega t + 90^\circ)$
 $a_{res} = \sqrt{a_1^2 + a_2^2 + 2a_1 a_2 \cos(90^\circ)}$

★ 2007

$\left[\begin{matrix} \text{Same } T (T_1) \\ \text{Diff } - U (T_2) \end{matrix} \right] \rightarrow \text{They both will be in same phase again}$

$\left[\begin{matrix} \text{Same } T (T_1) \\ \text{Diff } - U (T_2) \end{matrix} \right] \rightarrow \text{After } (n-1) \text{ oscillations of shorter Pendulum } \rightarrow (n-1)T_1 = (n)T_2$

$\left[\begin{matrix} \text{Same } T (T_1) \\ \text{Diff } - U (T_2) \end{matrix} \right] \rightarrow \text{After } (n-1) \text{ oscillations of longer Pendulum}$

★ 2017 $A = 3\text{cm}$
 $x = 2\text{cm}$
 $v_x = 0$

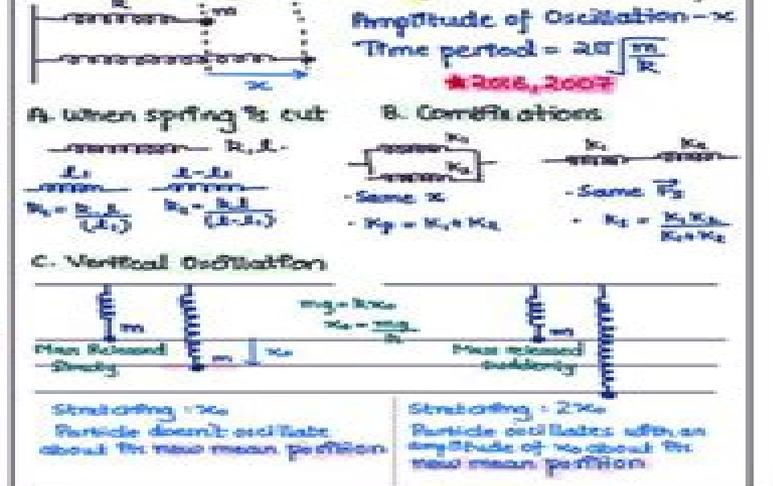
what is T?
 $1. \omega = \sqrt{\frac{k}{m}} = \omega^2 (3)$
 $2. \text{calculate } \omega$
 $3. \text{calculate } T = \frac{2\pi}{\omega}$

★ 2015 what is T?
 $v_{max} = \omega A$
 $v_{max} = \beta \frac{x}{T} = \frac{\omega^2 x_0}{\omega x_0}$

★ 2015 what is T?
 $v_{max} = \omega A$
 $v_{max} = \beta \frac{x}{T} = \frac{\omega^2 x_0}{\omega x_0}$

★ 2015 what is T?
 $v_{max} = \omega A$
 $v_{max} = \beta \frac{x}{T} = \frac{\omega^2 x_0}{\omega x_0}$

Spring-mass systems



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Henry Smith Carhart



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