

# Vibrations and waves

1.  $x = A \cdot \sin(\omega t + \varphi_0)$



2.  $v_x = v_m \cdot \cos(\omega t + \varphi_0)$

3.  $a_x = -a_m \cdot \sin(\omega t + \varphi_0)$

4.  $\omega = 2\pi\nu = \frac{2\pi}{T}$

$\nu = \frac{1}{T} \Rightarrow T = \frac{1}{\nu}$

5.  $T = \frac{1}{\nu} ; \nu = \frac{1}{T}$

$\omega = \frac{\Delta\varphi}{\Delta t} \quad (\Delta\varphi = 2\pi, \Delta t = T)$

6.  $v_m = \omega A$

7.  $a_m = -\omega^2 A$

$\omega = \frac{2\pi}{T} \Rightarrow v = \omega R$

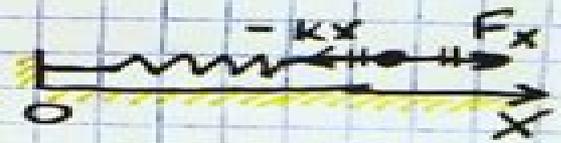
8.  $T = 2\pi \sqrt{\frac{m}{k}}$



9.  $T = 2\pi \sqrt{\frac{l}{g}}$

$g \approx 9,8 \frac{m}{s^2}$

10.  $\frac{kA^2}{2} = \frac{mv_x^2}{2} + \frac{kx^2}{2} = \frac{mv_m^2}{2}$



11.  $\lambda = v \cdot T = \frac{v}{\nu}$

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# Physics Waves And Vibrations Notes

**Jiyuan Zhang**



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