Tanung 9th Simple Hameric period [T] (SI how lang to go back & fourth hus restoring force
of form: Fx= xx
[Harke's law) $\frac{a=-kx}{m}=\frac{d^2x}{\sqrt{z}}$ $\frac{d^{2}x}{dt^{2}} = \frac{1}{2} \frac{k}{m} = 0$ equation of motion Best aray h 14 = cos (co 6 + p) 50 de = - Adsin (a) ot + p) dy = - Aω2cos(ω, t+ β) So a/t/= dex [-w2+ 1] X(4) =0 $-\omega_0^2 + \frac{k}{m} = 0 \quad \omega_0^2 = \frac{k}{m} \quad \omega_0 = \sqrt{\frac{k}{m}}$ Hilroy

