Answer on Question #51965 – Physics - Other

The equation of a simple harmonic oscillator is given as
d2xdt2+ω20x=ma
. The quantity
ω20
is can be used to determine

Solution:

ω_0^2 — angular frequency — is used to determine the frequency and period of the oscillations:

$$f = \frac{\omega}{2\pi}$$
$$T = \frac{2\pi}{\omega}$$

Answer: frequency and period