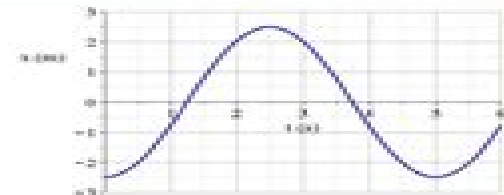


Harmonic motion is a motion, where a coordinate (or coordinates) are described by sine or cosine function.

Example: $x(t) = A \cos(\omega t + \phi_0)$. Here A is the amplitude (it determines maximal deviation from the central point), ω is the angular frequency (related to the period of motion T via $\omega = 2\pi/T$), and ϕ_0 is the initial phase, or phase constant (it determines the initial, i.e. at $t = 0$, location and direction of travel of the object).



Q3.1. Reading a SHM graph.

The graph shows an example of harmonic motion described by $x(t) = A \cos(\omega t + \phi_0)$.

Its amplitude is $A = 2.5\text{m}$

Its period is $T = 5\text{s}$

Its angular frequency is $\omega = 2\pi/5 \text{ rad/s}$

What is the distance travelled in one cycle? $4(2.5) = 10\text{m}$

What is the phase constant for this motion? π

$$A \cos(\phi_0) = -A$$

Q3.2. Phase constant and initial condition.

Assume that $x(t) = A \cos(\omega t + \phi_0)$. The mass is released at $t = 0$.

a) What is the phase constant if the mass is released from $x = -A$?

$$\boxed{\phi_0 = \pi}$$

b) What is the phase constant if the mass is released from $x = A$?

$$\boxed{\phi_0 = 0}$$



Note: These two points are special. In these points the mass can move in only one direction (only inwards). Later (see Q3.8) we will learn how to determine the phase constant in the general case (i.e. in the points $-A < x < A$, where the motion is possible in both directions).

Simple Harmonic Motion Worksheet Answers

Mr. Sanjeev Pandey



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