

In simple harmonic motion, starting from rest,

At $t = 0$, $x = A$

$$X = A \cos \omega t \quad \dots\dots (i)$$

When $t = \tau$, $x = A - a$

When $t = 2\tau$, $x = A - 3a$

From equation (i)

$$A - a = A \cos \omega \tau \quad \dots\dots(ii)$$

$$A - 3a = A \cos 2\omega \tau \quad \dots\dots(iii)$$

$$\text{As } \cos 2\omega \tau = 2 \cos^2 \omega \tau - 1 \dots(iv)$$

From equation (ii), (iii) and (iv)

$$\frac{A - 3a}{A} = 2 \left(\frac{A - a}{A} \right)^2 - 1$$

$$\Rightarrow \frac{A - 3a}{A} = \frac{2A^2 + 2a^2 - 4Aa - A^2}{A^2}$$

$$\Rightarrow A^2 - 3aA = A^2 + 2a^2 - 4Aa$$

$$\Rightarrow 2a^2 = aA \Rightarrow A = 2a \Rightarrow \frac{a}{A} = \frac{1}{2}$$

Now, $A - a = A \cos \omega \tau$

$$\Rightarrow \cos \omega \tau = \frac{A - a}{A} \Rightarrow \cos \omega \tau = \frac{1}{2} \quad \text{or} \quad \frac{2\pi}{T} \tau = \frac{\pi}{3}$$

$$\Rightarrow T = 6\tau$$

Simple Harmonic Motion Questions And Answers

The Princeton Review



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Surveyor and Municipal and County Engineer, 1910

Building World, 1904

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