

Simple Harmonic Motion

1. Define Simple Harmonic Motion.

When an object's acceleration is directly proportional to its displacement but in the opposite direction.

2. A grandfather clock has a simple pendulum, which is 1.5 m long. Calculate the period and hence the frequency of the pendulum.

$$T = 2\pi \sqrt{\frac{l}{g}} = 2\pi \sqrt{\frac{1.5}{9.81}} = 2.456919 \dots = 2.46 \text{ s}$$

3. A simple pendulum of length "l" has a periodic time of T_1 seconds. What is the periodic time, T_2 , of a pendulum whose length is 2l?

$$T_1 = 2\pi \sqrt{\frac{l}{g}} \text{ and } T_2 = 2\pi \sqrt{\frac{2l}{g}} = 2\pi\sqrt{2} \sqrt{\frac{l}{g}} = \sqrt{2}T_1$$

4. a) A spring, natural length 30 cm is 35 cm long when a mass of 200 g is suspended from it. What is the spring constant?

$$F = k\Delta L \Rightarrow k = \frac{F}{\Delta L} = \frac{mg}{\Delta L} = \frac{0.2 \times 9.81}{0.05} = 39.24 = 39 \text{ Nm}^{-1}$$

When the mass is pulled down 2.0 cm and released the spring/mass system oscillates with simple harmonic motion.

b) What is the time period of the oscillations?

$$T = 2\pi \sqrt{\frac{m}{k}} = 2\pi \sqrt{\frac{0.2}{39.24}} = 0.44857 \dots = 0.45 \text{ s}$$

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