

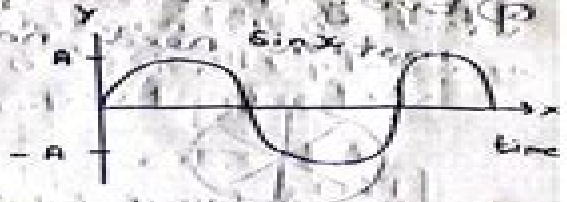
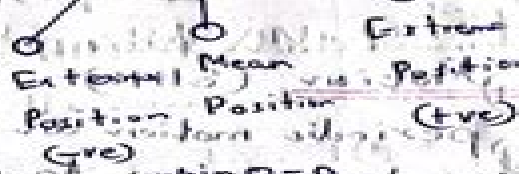
5. Oscillations

5.1 Introduction

Types of Motion

- 1) Linear motion
- 2) Angular motion

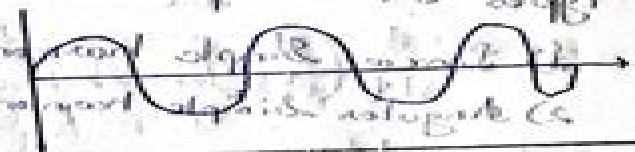
3) Harmonic motion



Displacement $y = A \sin \omega t$ or $y = A \cos \omega t$
 where A is the amplitude, ω is the angular frequency, and t is time.

Periodic Motion

The motion of a body which repeats itself after equal intervals of time called as periodic motion.



Vibratory Motion

Periodic motion in which a particle repeatedly moves to and fro along the same path is the oscillatory or vibratory motion.

Example of Oscillatory Motion

1. Rocking of the cradle
2. Swinging of a swing
3. Motion of the pendulum of a clock
4. Vibrations of a guitar or violin string
5. Up and down motion of the needle of a sewing machine.
6. Oscillation of a spring

$$F = -kx$$

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