

# 1. 1D CM, Review

Assume 1D harmonic

Mass-spring system  
constant mass  $m$

restoring force  $F$



equation of motion

$$M \ddot{x} = -k(x - x_0) \quad (1)$$

$$M \ddot{x} = -kx \quad (2)$$

$$F_{\text{spring}} = -k(x - x_0) \quad (3)$$

$$\ddot{x} = -\omega^2 x \quad (4)$$

$$\omega = \sqrt{k/M} \quad (5)$$

$$T = 2\pi/\omega \quad (6)$$

1D harmonic oscillator is a simple harmonic oscillator  
 $\omega = \sqrt{k/M}$

1D harmonic oscillator is a simple harmonic oscillator

$$F_{\text{spring}} = -k(x - x_0) \quad (7)$$

$$F_{\text{spring}} = -kx \quad (8)$$

$$F_{\text{spring}} = -k(x - x_0) \quad (9)$$

$$F_{\text{spring}} = -kx \quad (10)$$

1D harmonic oscillator

$$M \ddot{x} = -k(x - x_0) \quad (11)$$

$$M \ddot{x} = -kx \quad (12)$$

$$F_{\text{spring}} = -k(x - x_0) \quad (13)$$

$$\ddot{x} = -\omega^2 x \quad (14)$$

1D harmonic oscillator  
 constant mass  $m$

1D harmonic oscillator  
 constant mass  $m$

# Mechanics Study Guide

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