

**Spring-Mass System** is a mass attached to a spring. If one stretches the spring, then releases it, the spring will move the mass back and forth causing it to **oscillate**. The general differential equation that describes this system is

$$my'' + \gamma y' + ky = F(t)$$

where  $y(t)$  is displacement of the spring from its *equilibrium position*,  $m > 0$  is the *mass*,  $k > 0$  is the *spring constant*,  $\gamma > 0$  is the *damping coefficient*, and  $F(t)$  is the *forcing function*.

In today's lesson we will look at the case in which the forcing function is zero,  $F(t) = 0$ :

$$my'' + \gamma y' + ky = 0$$

This is second order linear homogeneous differential equation with constant coefficients. We can use the methods from the previous lesson to solve this differential equation and describe the solutions behavior.

### 1. Spring-Mass System Without Damping

- (a) To start with let's look at an example that has no damping (or forcing). Write down a differential equation for a spring mass system that has mass of 3 kg and a spring constant of 12 kg/s<sup>2</sup>.

$$3 \text{ kg} = m$$

$$12 \text{ kg/s}^2 = k$$

$$\text{NO DAMPING} \Rightarrow \gamma = 0$$

$$3y'' + 12y = 0$$

- (b) Find the general solution to this differential equation. Then find the particular solution if the mass is stretched 3 m and released with a positive velocity of 2 m/s.

$$3y'' + 12y = 0$$

CHAR. EQ.:

$$3\lambda^2 + 12 = 0$$

$$3\lambda^2 = -12$$

$$\lambda^2 = -4$$

$$\lambda = \pm 2i$$

$$\lambda_{1,2} = 0 \pm 2i: \quad \mu = 0 \quad \nu = 2$$

FUNDAMENTAL SOLUTIONS:

$$y_1 = e^{\lambda_1 t} \cos(\nu t) = \cos(2t)$$

$$y_2 = e^{\lambda_2 t} \sin(\nu t) = \sin(2t)$$

GENERAL SOLUTIONS:

$$y = c_1 y_1 + c_2 y_2 = c_1 \cos(2t) + c_2 \sin(2t)$$

PARTICULAR SOLUTIONS:

$$\text{if } y(0) = 3, \quad y'(0) = 2$$

$$c_1(1) + c_2(0) = 3 \quad c_1 = 3$$

$$-2c_1(0) + 2c_2(1) = 2 \quad c_2 = \frac{2}{2} = 1$$

$$y(t) = 3 \cos(2t) + \sin(2t)$$

# Spring Mass Systems Stephen Murray Answer Key

**Mike Jess**



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web 2 days ago class 10 maths chapter 3 extra questions for students to practice in the equation  $y = 0$  and  $y = 5$  find the number of solutions find the value of  $x$   $y$  from the two equations  $ax + by = a^2 + b^2$  and  $bx + ay = 0$  find if the following linear equations are inconsistent or consistent  $3x + 2y = 8$   $6x + 4y = 9$  draw the graph of  $2x + 3y = 4$   $x + 6 = 2y$  and

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web 10 hours ago step 1 find the value of one variable say  $y$  in terms of the other variable i e  $x$  from either equation whichever is convenient step 2 substitute this value of  $y$  in the other equation and