

## PROBLEMS

Those problems marked with an asterisk are intended to be solved using computational software or the MATLAB Toolbox.

### Section 1.1

- 1.1.** The spring of Figure 1.2 is successively loaded with mass and the corresponding (static) displacement is recorded as follows. Plot the data and calculate the spring's stiffness. Note that the data contain some errors. Also calculate the standard deviation.

|                |      |      |      |      |      |      |      |
|----------------|------|------|------|------|------|------|------|
| $m(\text{kg})$ | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
| $x(\text{m})$  | 1.14 | 1.25 | 1.37 | 1.48 | 1.59 | 1.71 | 1.82 |

- 1.2.** Derive the solution of  $m\ddot{x} + kx = 0$  and plot the result for at least two periods for the case with  $\omega_0 = 2 \text{ rad/s}$ ,  $x_0 = 1 \text{ mm}$ , and  $v_0 = \sqrt{3} \text{ mm/s}$ .
- 1.3.** Solve  $m\ddot{x} + kx = 0$  for  $k = 4 \text{ N/m}$ ,  $m = 1 \text{ kg}$ ,  $x_0 = 1 \text{ mm}$ , and  $v_0 = 0$ . Plot the solution.
- 1.4.** The amplitude of vibration of an undamped system is measured to be  $1 \text{ mm}$ . The phase shift from  $t = 0$  is measured to be  $2 \text{ rad}$  and the frequency is found to be  $5 \text{ rad/s}$ . Calculate the initial conditions that caused this vibration to occur. Assume the response is of the form  $x(t) = A \sin(\omega_0 t + \phi)$ .

- 1.5.** Find the equation of motion for the hanging spring-mass system of Figure P1.5 and compute the natural frequency. In particular, using static equilibrium along with Newton's law, determine what effect gravity has on the equation of motion and the system's natural frequency.

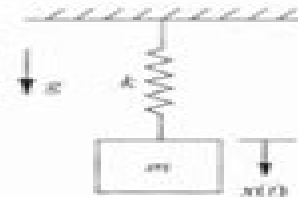
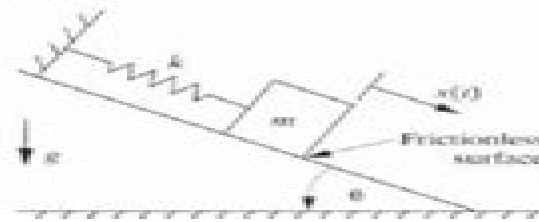


Figure P1.5

- 1.6.** Find the equation of motion for the system of Figure P1.6 and compute the formula for the natural frequency. In particular, using static equilibrium along with Newton's law, determine what effect gravity has on the equation of motion and the system's natural frequency. Assume the block slides without friction.



# Chapter 1 supplemental Problems Vibrations Waves

**Michael B. Leyden**



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