



Figure 13.7 (a) An object-spring system in equilibrium. (b) The same system at a displacement x . The mass is moving with velocity v . The displacement is x . The spring force is kx . The weight is mg . The net force is $kx - mg$.

In addition to studying the preceding example, it's a good idea to review those given in Section 5.4.

13.3 Comparing Simple Harmonic Motion with Uniform Circular Motion

Conservation of energy provides a simple method of deriving an expression for the velocity of an object undergoing periodic motion as a function of position. The object in question is usually at its maximum extension (Fig. 13.5a) and is then released from rest. The initial energy of the system is entirely elastic potential energy stored in the spring, $\frac{1}{2}kx^2$. As the object moves toward the origin, its elastic potential energy is transformed into kinetic energy. At any position x (Fig. 13.5b), part of this energy is transformed into kinetic energy, and the potential energy stored in the spring is reduced to $\frac{1}{2}kx^2$. Because the total energy of the system is equal to $\frac{1}{2}kx^2$, the initial energy stored in the spring, we can equate this quantity to the sum of the kinetic and potential energies at the position x :

$$\frac{1}{2}kx^2 = \frac{1}{2}mv^2 + \frac{1}{2}kx^2$$

Solving for v , we get

$$v = \pm \sqrt{\frac{k}{m}}x$$

This expression shows that the object's speed is a maximum at $x = 0$ and is zero at the extreme positions $x = \pm A$ (Fig. 13.6).

The right side of Equation 13.6 is preceded by the $\pm$ sign to note the square root of a number can be either positive or negative. If the object in Figure 13.7 is moving to the right, v is positive; if the object is moving to the left, v is negative.

EXAMPLE 13.4 The Object-Spring System Revisited

GOAL Apply the time-independent velocity expression, Equation 13.6, to an object-spring system.

PROBLEM A 0.500-kg object connected to a light spring has a spring constant of 20.0 N/m and oscillates on a frictionless horizontal surface. (a) Calculate the total energy of the system and the maximum speed of the object if the amplitude of the motion is 3.00 cm. (b) What is the velocity of the object when the displacement is 2.00 cm? (c) Compare kinetic and potential energies of the system when the displacement is 2.00 cm.

STRATEGY The total energy of the system can be found most easily at $x = A$, where the kinetic energy is zero. Then, the potential energy alone is equal to the total energy. Conservation of energy then yields the speed at $x = 0$. For part (b), obtain the velocity by substituting the given value of x into the time-independent velocity equation. Using this result, the kinetic energy asked for in part (c) can be found by substitution, and the potential energy can be found by substitution into Equation 13.1.

FIGURE 13.7 (a) An object-spring system in equilibrium. (b) The same system at a displacement x .

GOAL Apply the total energy and maximum speed of the object-spring system.

PROBLEM

A 0.500-kg object connected to a light spring has a spring constant of 20.0 N/m and oscillates on a frictionless horizontal surface. (a) Calculate the total energy of the system and the maximum speed of the object if the amplitude of the motion is 3.00 cm. (b) What is the velocity of the object when the displacement is 2.00 cm? (c) Compare kinetic and potential energies of the system when the displacement is 2.00 cm.

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PROBLEM

A 0.500-kg object connected to a light spring has a spring constant of 20.0 N/m and oscillates on a frictionless horizontal surface. (a) Calculate the total energy of the system and the maximum speed of the object if the amplitude of the motion is 3.00 cm. (b) What is the velocity of the object when the displacement is 2.00 cm? (c) Compare kinetic and potential energies of the system when the displacement is 2.00 cm.

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PROBLEM

PROBLEM

PROBLEM

PROBLEM

13.3 Comparing Simple Harmonic Motion with Uniform Circular Motion

LEARNING OBJECTIVES

1. Describe the relationship between simple harmonic motion and uniform circular motion.
2. Define and apply the related concepts of the period, frequency, and angular frequency of a spring harmonic oscillator.

We can better understand and visualize many aspects of simple harmonic motion along a straight line by looking at its relationship to uniform circular motion. Figure 13.8 is a top view of an experimental arrangement that is useful for this purpose. A ball is attached to the rim of a turntable of radius R , illuminated from

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