#### Understanding Concepts

- Classify the following examples as transverse, longitudinal, or torsional vibrations.
  - (a) A ball attached to a spring is bouncing up and down.
  - (b) An agitator moves in an upright washing machine.
  - (c) A child swings on a swing.
  - (d) A child sits on a swing with the ropes twisted, so the child is spinning as the ropes are unwinding.
- 2. The mass of a pendulum moves a total horizontal distance of 14 cm in one cycle. What is the amplitude of the vibration?
- 3. A Canada goose flaps its wings 16 times in 21 s. What is the frequency and period of the wing beat?
- The world record for pogo jumping is 122 000 times in 15 h 26 min.
  - (a) What type of vibration is occurring in the spring of the pogo stick?
  - (b) Calculate the average period of vibration.
  - (c) Calculate the average frequency of vibration.
- Points A, B, C, D, and E are marked on a stretched rope (Figure 1). Pulses X and Y have the same shape and size, and travel through this rope at the same speed.
  - (a) Which point(s) would have an instantaneous upward motion if both pulses moved to the right?
  - (b) Which point(s) would have an instantaneous downward motion if pulse X moved to the right as pulse Y moved to the left?
  - (c) Which point(s) would have no motion, provided the pulses moved in opposite directions?

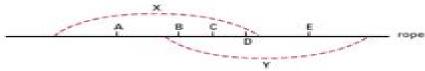


Figure 1

- 6. A sonar signal (sound wave) of 5.0 10<sup>2</sup> Hz travels through water with a wavelength of 3.0 m. What is the speed of the signal in water?
- Water waves with a wavelength of 6.0 m approach a lighthouse at 5.6 m/s.
  - (a) What is the frequency of the waves?
  - (b) What is their period?

- The distance between successive crests in a series of water waves is 5.0 m; the crests travel 8.6 m in 5.0 s.
  Calculate the frequency of a block of wood bobbing up and down in the water.
- 9. Two people are fishing from small boats located 28 m apart. Waves pass through the water, and each person's boat bobs up and down 15 times in 1.0 min. At a time when one boat is on a crest, the other one is in a trough, and there is one crest between the two boats. What is the speed of the waves?
- The wavelength of a water wave is 3.7 m and its period is 1.5 s.
  - (a) What is the speed of the wave?
  - (b) What is the time required for the wave to travel 1.0 10<sup>2</sup> m?
  - (c) What is the distance travelled by the wave in 1.00 min?
- 11. A boat at anchor is rocked by waves whose crests are 32 m apart and whose speed is 8.0 m/s. What is the interval of time between crests striking the boat?
- 12. The wavelength of a water wave is 8.0 m and its speed is 2.0 m/s. How many waves will pass a fixed point in the water in 1.0 min?
- When a car moves at a certain speed, there is an annoying rattle. If the driver speeds up or slows down slightly, the rattle disappears. Explain.
- 14. A 6.0-m rope is used to produce standing waves. Draw a scale diagram of the standing wave pattern produced by waves having a wavelength of
  - (a) 12 m (b) 6.0 m (c) 3.0 m
- 15. Standing waves are produced in a string by sources at each end with a frequency of 10.0 Hz. The distance between the third node and the sixth node is 54 cm. (a) What is the wavelength of the interfering waves? (b) What is their speed?
- 16. You send a pulse down a spring that is attached to a second spring with unknown properties. The positive pulse returns to you as a positive pulse, but with a smaller amplitude. Is the speed of the waves faster or slower in the second string? Explain your reasoning.
- 17. When a stone is dropped into water, the resulting ripples spread farther and farther out, getting smaller and smaller in amplitude until they disappear. Why does the amplitude eventually decrease to zero?
- 18. When standing waves are produced in a string, total destructive interference occurs at the nodes. What has happened to the wave energy?

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Raffaela Di Napoli

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