

Understanding Concepts

- Classify the following examples as transverse, longitudinal, or torsional vibrations.
 - A ball attached to a spring is bouncing up and down.
 - An agitator moves in an upright washing machine.
 - A child swings on a swing.
 - A child sits on a swing with the ropes twisted, so the child is spinning as the ropes are unwinding.
- The mass of a pendulum moves a total horizontal distance of 14 cm in one cycle. What is the amplitude of the vibration?
- 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.
 - What type of vibration is occurring in the spring of the pogo stick?
 - Calculate the average period of vibration.
 - 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.
 - Which point(s) would have an instantaneous upward motion if both pulses moved to the right?
 - Which point(s) would have an instantaneous downward motion if pulse X moved to the right as pulse Y moved to the left?
 - Which point(s) would have no motion, provided the pulses moved in opposite directions?



Figure 1

- A sonar signal (sound wave) of 5.0×10^2 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.
 - What is the frequency of the waves?
 - 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.
- 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.
 - What is the speed of the wave?
 - What is the time required for the wave to travel 1.0×10^2 m?
 - What is the distance travelled by the wave in 1.00 min?
- 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?
- 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.
- 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
 - 12 m
 - 6.0 m
 - 3.0 m
- 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.
 - What is the wavelength of the interfering waves?
 - What is their speed?
- 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.
- 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?
- 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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