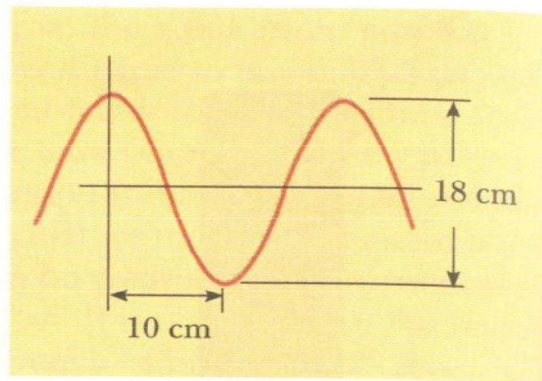


REVIEW QUESTIONS

Chapter 6

1. How are sound and light waves similar? How are they different?
2. A wave has a period of 0.8 seconds. What is the wave's frequency?
3. Does shouting louder make your friend across the yard hear you faster? Explain.
4. Clearly identify and determine the wavelength and amplitude of the wave shown below:



5. When shouting near a canyon you here your echo in 6 seconds. If the speed of sound is 340 m/s, how far away is the canyon? (Hint: How long does it take for the sound to travel from you to the canyon?)

6. A sound wave has a frequency of 2000 Hz. What is the wavelength of these waves? The speed of sound is 340 m/s.

7. Complete each statement below with a suitable word or phrase:

A) Waves involve propagation of \_\_\_\_\_.

B) Wave velocity and particle motion are \_\_\_\_\_ in transverse waves.

C) The distance between one wave crest and an adjoining one is called \_\_\_\_\_.

D) In vacuum, EM waves travel at the speed of \_\_\_\_\_.

E) Radio waves are \_\_\_\_\_, while sound waves are \_\_\_\_\_.

F) Resonance occurs at \_\_\_\_\_ frequencies.