

Section  
**12-3**

HOLT PHYSICS

# Concept Review

## *Properties of Waves*

1. Radio waves travel at the speed of light ( $3.00 \times 10^8$  m/s). An amateur radio system can receive radio signals at frequencies between 8.00 MHz and 1.20 MHz. What is the range of the wavelengths this system can receive?

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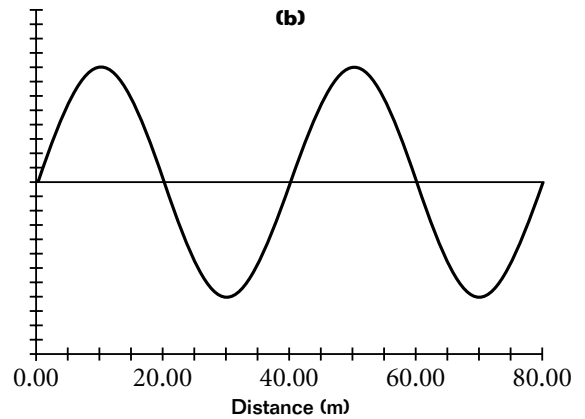
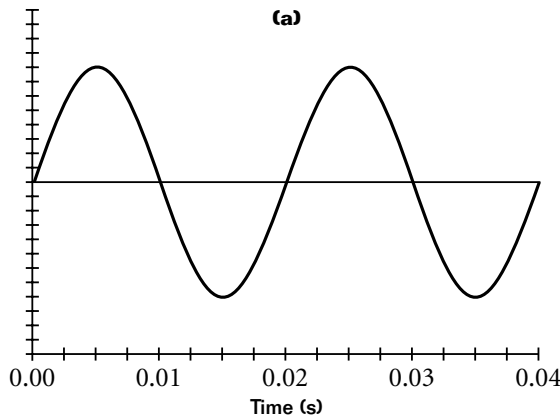


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2. Graph (a) below describes the density versus time of a pressure wave traveling through an elastic medium. Graph (b) describes the density versus distance for the same wave.



- a. Use graph (a) to find the period of oscillation of this wave and its frequency.

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- b. Use graph (b) to find the wavelength and the speed.

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