

Name: _____

Period: _____

HW—13:1— Sound
Mr. Murray, IPC
www.aisd.net/smurray

Assigned: Fri., 3/23/04
Due: Tues., 3/27/04

What is the speed of sound?

A sound is 100 Hz, find its wavelength.

You see a person hit a nail, then 2 seconds later hear the hammer. How far away are they?

The amplitude of sound we hear as:

What has a higher frequency voice a bird or an elephant?

Question on back

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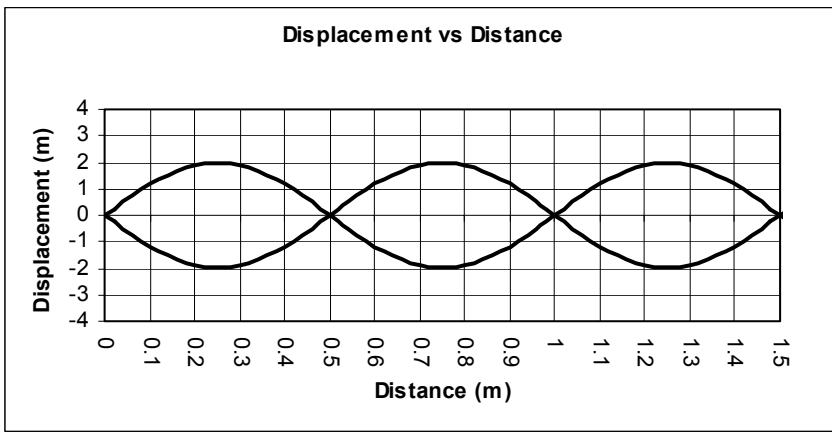
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For the standing wave on the left:

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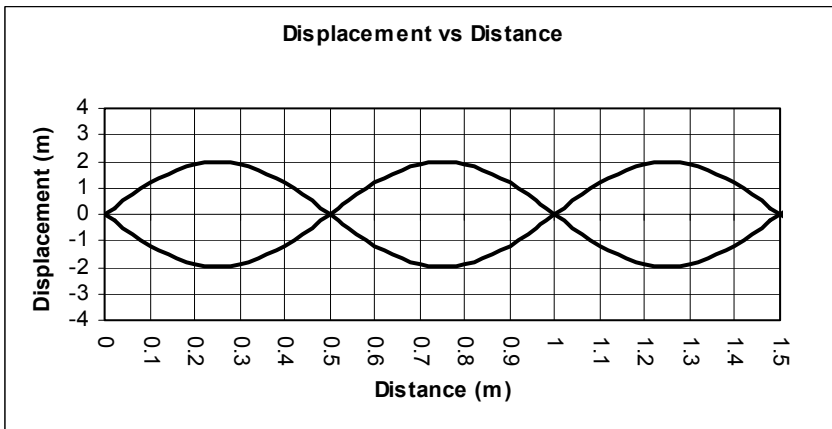
- 1) Label the nodes and anti-nodes
- 2) What is its wavelength?
- 3) How many wavelengths is the graph?
- 4) What harmonic is it?
- 5) If its frequency is 48 Hz, what is its period?
- 6) What is its fundamental?

Can you hear these frequencies:

Supersonic? 800 mph ____ 320 m/s ____

10 Hz ____ 1,000 Hz ____ 40,000 Hz ____

Quiet or loud? 30 dB ____ 100 dB ____



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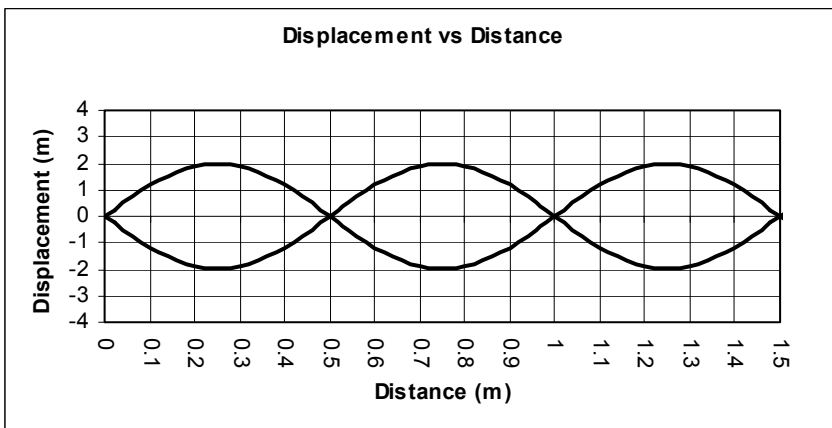
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