

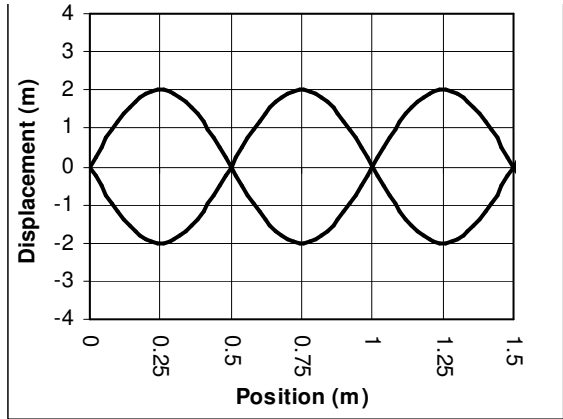
Name: _____

Period: _____

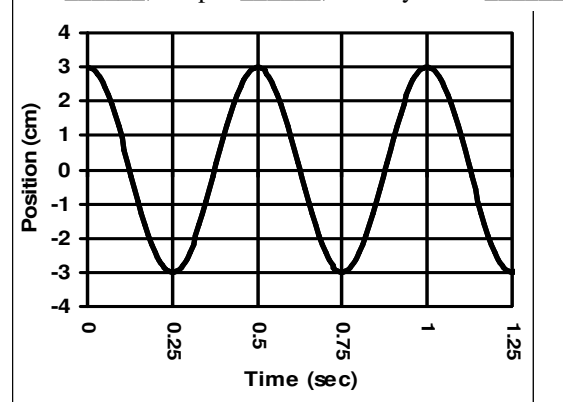
HW Unit 10:6—Standing Waves
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A-day: Due Thurs., 5/3 (Assig: 5/1)
B-day: Due Fri., 5/4 (Assig: 5/2)

$\lambda =$ _____; Amp = _____; # of cycles = _____



$\lambda =$ _____; Amp = _____; # of cycles = _____



1. Which one is a standing wave? Left or right.
2. Mark the nodes and anti-nodes of the standing wave.
3. Mark the crests and troughs of the moving wave.
4. Above each graph give:
A) Wavelength;
B) Amplitude;
C) # of cycles shown.
5. Which graph has more energy.

6. If a wave's eighth harmonic (H_8) has a frequency of 24 Hz, what is its fundamental?

7. How many antinodes equals 1 wavelength?

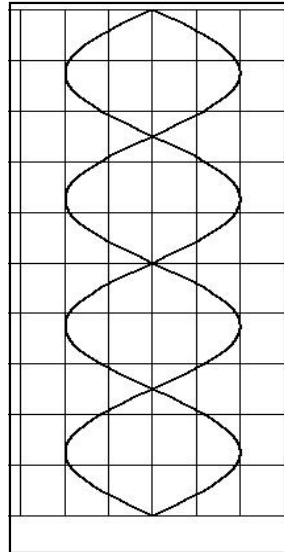
8. Your person yells at you from across a field. If it takes 2 seconds for their words to get to you....

A) How fast is their sound coming towards you?

B) Find the width of the field.

Variables: Equation: Solve:

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9. For the standing wave on the left:
A) Label the nodes and anti-nodes
B) How many wavelengths is it?
C) What harmonic is it?
D) If its frequency is 48 Hz, what is its period?
E) What is the frequency fundamental?