

Period:

HW—12:1— Standing Waves Mr. Murray, IPC www.aisd.net/smurray

Assigned: Wend., 3/21/04 Due: Fri., 3/23/04



Which one is a standing wave?

Mark the nodes and anti-nodes of the standing wave.

Mark the crests and troughs of the moving wave.

Put the wavelength of each wave under the graph?



Question on back



Question on back

Position (m)

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Question on back

wave under the graph?



1 1 4 5



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Name: Period:

-4

0 0.2 0.1 0.3 0.4 0.5 0.6 0.8 0.7 0.9 -1



Wavelength

HW 12:1

If a wave's fundamental frequency is 10 Hz, what would be its ninth harmonic (H₉)?

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



For the standing wave on the left: Label the nodes and anti-nodes How many wavelengths is it? What harmonic is it? If its frequency is 48 Hz, what is it's period? What is it's fundamental?

If a wave's fundamental frequency is 10 Hz, what would be its ninth harmonic (H_9) ?

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



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HW 12:1

For the standing wave on the left:	
_ 1)	Label the nodes and anti-nodes
2)	How many wavelengths is it?
3)	What harmonic is it?
4)	If its frequency is 48 Hz, what is it's period?
5)	What is it's fundamental?