

Standing Wave Relationships

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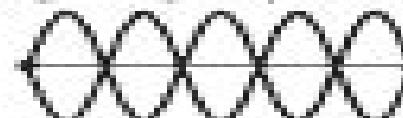
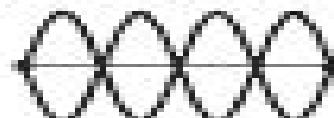
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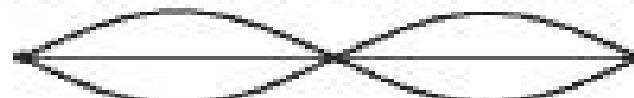
Answers: multiple choice

A standing wave pattern would be a string, rope or wire kept in a fixed position. The interactions between the transverse vibrations on one end with the reflections off the waves returning from the opposite end, will certain configurations, a pattern will be established within the medium in which there are positions that a have a positive to the stationary. Likewise, there are nodes of these stationary positions are positions which are undergoing rapid motion between a maximum positive and maximum negative displacement from their resting position.

1. The positions along the medium that appear to be stationary are known as _____ They are points of no displacement.
2. The positions along the medium that are undergoing rapid motion between a maximum positive and maximum negative displacement are known as _____. They are the opposite of the points of no displacement.
3. Label the nodes (N) and antinodes (A) in the following standing wave patterns.



4. In each of the two diagrams of standing wave patterns, count the number of nodes and antinodes.



5. Each node is separated by the adjacent node by a distance that is equal to _____ wavelength.
6. Draw the standing wave pattern that would result from the string below if the string vibrated with the first, second, and third harmonic wave patterns. State the relationship between length and the wavelength for each of the three patterns.

1st Harmonic:

2nd Harmonic:

3rd Harmonic:



$$L_1 = \text{_____} \lambda$$

$$L_2 = \text{_____} \lambda$$

$$L_3 = \text{_____} \lambda$$

7. Suppose that the string in the above diagrams is 1.2 meters long. Determine the wavelength of the first three modes of these three patterns.

1st Harmonic:

2nd Harmonic:

3rd Harmonic:

Standing Waves Ch 121 Answer Key

DJ Losen

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Bell Laboratories Talks and Papers Bell Telephone Laboratories. Libraries and Information Systems Center, 1972

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