

Standing Waves

Let's assume that electromagnetic waves travel a way for trapped between two mirrors. There are standing waves.

A jump rope is a good example of a standing wave.



The jump is made negative going down to form a downward loop and then goes upward to the wave. Jump rope forms two other loops.

The places of zero-amplitude are called nodes. The places of greatest amplitude are called antinodes.



A standing wave

Standing waves are created by interference between two waves, so we have both the wave and the trough at the same place at the same time. In reality, though, it's a mixture going up and down, just like a jump rope.

In a standing wave, each antinode is one-half of a wavelength.

$$1 \text{ Antinode} = \frac{1}{2} \lambda$$

$$2 \text{ Antinodes} = \lambda$$

Two standing waves (the same wave) are shown below. Notice that wave length is measured to be equal as a distance by the time it has made pushing through the wave.



Standing wave

A graph of the fundamental wave for the string.

The longest wave that can be produced in a certain distance is called the fundamental. It is one-half of one wavelength long.

Standing Waves

Standing waves occur between objects whose distance is equal to the fundamental. Standing waves occur in the harmonics. Harmonics could be the jump that string longer, and then two, three, four, etc.

Part 1: Measure λ of a Vibrating String



Frequency of Harmonics

Frequency of the fundamental is $f_1 = \frac{v}{\lambda_1}$ and the frequency of the harmonics is $f_n = \frac{v}{\lambda_n}$.

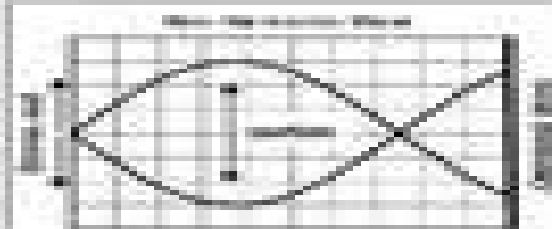
Part 2: Measure the frequency of the string harmonics (using a 100 Hz fundamental)

$f_1 = 100 \text{ Hz}$
 $f_2 = 200 \text{ Hz}$
 $f_3 = 300 \text{ Hz}$
 $f_4 = 400 \text{ Hz}$
 $f_5 = 500 \text{ Hz}$

Part 3: Measure the frequency of the string harmonics (using a 100 Hz fundamental)

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 $f_4 = 400 \text{ Hz}$
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The frequency of the string can be found by the number of the antinodes. The antinodes are the points of maximum displacement of a standing wave, and the antinodes are the points of maximum displacement.



Harmonic	Antinodes	Nodes	Wavelength	Frequency
1st	1	2	$\lambda_1 = 2L$	$f_1 = \frac{v}{\lambda_1}$
2nd	2	3	$\lambda_2 = L$	$f_2 = \frac{v}{\lambda_2}$
3rd	3	4	$\lambda_3 = \frac{2}{3}L$	$f_3 = \frac{v}{\lambda_3}$
4th	4	5	$\lambda_4 = \frac{1}{2}L$	$f_4 = \frac{v}{\lambda_4}$
5th	5	6	$\lambda_5 = \frac{2}{5}L$	$f_5 = \frac{v}{\lambda_5}$

Cstephenmurray Standing Waves Answer Key

Puja Mehta



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