

Standing Waves

Let's assume that electromagnetic waves travel at c . For a string between two fixed points, there are standing waves.

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



The jump is made by moving the ends of the rope up and down, creating a wave. The rope is fixed at both ends, so it can only move up and down.

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



A standing wave

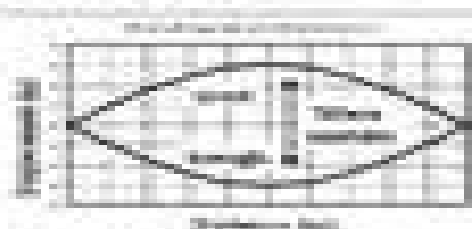
Standing waves are created by two waves traveling in opposite directions, so we have both the wave and the string at the same place at the same time. In reality, though, it's a mixture of going up and down, just like a jump rope.

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 string) are shown below. Notice that more energy is required to spread a string by the same amount as it is to spread a string by the same amount.



Standing wave

A graph of the fundamental wave for a string fixed at both ends.

The longest wave that can be produced in a string fixed at both ends 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 are the next longer than the fundamental, and then two, three, four, etc.

Part 1: Harmonics 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 $f_n = \frac{v}{\lambda_n}$.

If you know the frequency of the fundamental, then you can find the frequency of the harmonics.

$$f_1 = \frac{v}{\lambda_1} = \frac{v}{2L}$$

$$f_2 = \frac{v}{\lambda_2} = \frac{v}{L}$$

$$f_3 = \frac{v}{\lambda_3} = \frac{3v}{2L}$$

$$f_4 = \frac{v}{\lambda_4} = \frac{2v}{L}$$

$$f_5 = \frac{v}{\lambda_5} = \frac{5v}{2L}$$

If you know the frequency of the fundamental, then you can find the frequency of the harmonics.

$$f_1 = \frac{v}{\lambda_1} = \frac{v}{2L}$$

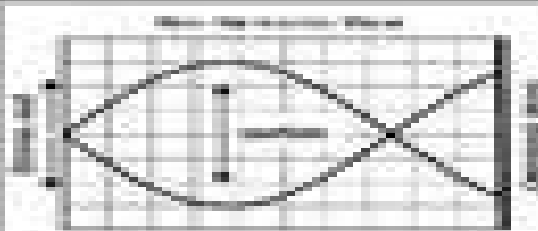
$$f_2 = \frac{v}{\lambda_2} = \frac{v}{L}$$

$$f_3 = \frac{v}{\lambda_3} = \frac{3v}{2L}$$

$$f_4 = \frac{v}{\lambda_4} = \frac{2v}{L}$$

$$f_5 = \frac{v}{\lambda_5} = \frac{5v}{2L}$$

Standing waves can be produced in a string fixed at both ends. The string will vibrate in one, two, three, four, etc. loops, and each loop is one-half wavelength long.



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

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







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