

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 negative going down to form a disturbance and then goes away to the wave. Jump rope is like a standing wave.

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



A standing wave.

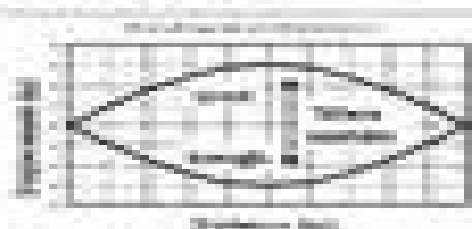
Standing waves are created by interference between two waves, so we have both the wave and the length in the wave. In reality, though, it's a wave going up and down, just like a jump rope.

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 lengths are multiples of the fundamental. Standing waves occur in the harmonics. Harmonics are the modes of vibration that are longer, and have two, three, four, etc., antinodes.

Part 1: Harmonics of a Vibrating String



Frequency of Harmonics

Frequency of the n th harmonic is $f_n = \frac{v}{\lambda_n}$ and the wavelength is $\lambda_n = \frac{2L}{n}$.
 Frequency of the fundamental is $f_1 = \frac{v}{2L}$.

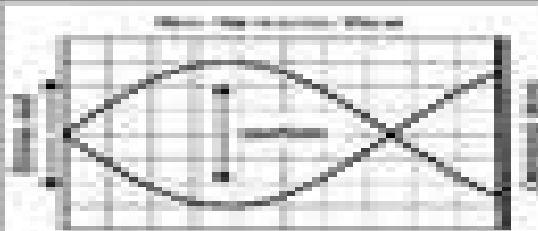
If you know the frequency of the first harmonic, then you can find the frequency of the n th harmonic.

$$f_n = n f_1$$

If you know the frequency of the first harmonic, then you can find the frequency of the n th harmonic.

$$f_n = n f_1$$

Standing waves can be formed in a tube. The wave in the tube is a standing wave, and it's like a string fixed at both ends.



Harmonic	Nodes	Antinodes	Length	Frequency
1st	2	1	L	f_1
2nd	3	2	L	$2f_1$
3rd	4	3	L	$3f_1$
4th	5	4	L	$4f_1$
5th	6	5	L	$5f_1$

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