

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 your hands up and down, creating a wave. The wave is a standing wave, meaning it is not moving along the rope. The wave is made by moving your hands 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 is 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 waves

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 wavelength. Standing waves occur in the atmosphere. Standing waves occur in the ocean. Standing waves occur in the ground. Standing waves occur in the air. Standing waves occur in the water. Standing waves occur in the earth. Standing waves occur in the sky. Standing waves occur in the universe.

Part 1: Standing Waves in a Tube



Frequency of Standing Waves

Frequency of a standing wave is $f = \frac{v}{\lambda}$, and the wavelength is $\lambda = \frac{v}{f}$. The frequency of the fundamental is f_1 .

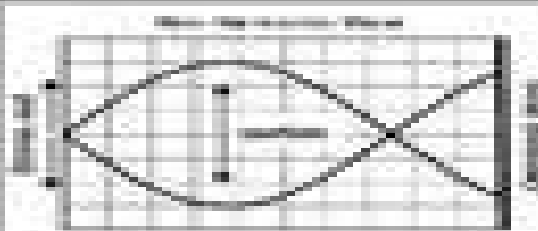
If you know the frequency of the fundamental, you can find the frequency of any harmonic.

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

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Standing waves can be produced in a tube. The wave is a standing wave, meaning it is not moving along the tube. The wave is made by moving the ends of the tube up and down.



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

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