

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 show both the wave that is going to the right and the wave that is going to the left. It is made through interference 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 wave pattern) are shown below. Notice that wave length is measured to be equal to a distance by the time all the nodes passing through the wave.



Standing wave.

A graph of the fundamental wave for the standing wave.

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 wave length, 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 wavelength is $\lambda_1 = 2L$.
 Frequency of the harmonics is $f_n = \frac{v}{\lambda_n}$.

(1) If the frequency of the first harmonic (fundamental) is f_1 , then the frequency of the harmonics is f_n .

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

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

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

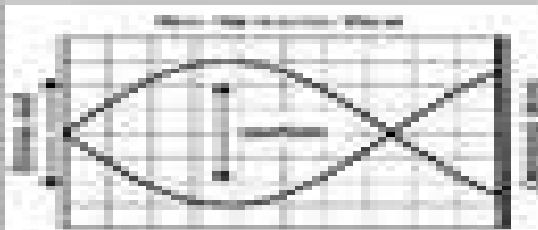
(2) If the frequency of the first harmonic (fundamental) is f_1 , then the frequency of the harmonics is f_n .

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

$$f_2 = \frac{v}{\lambda_2} = \frac{2v}{2L} = \frac{v}{L}$$

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

The frequency of the harmonics can be found by the frequency of the first harmonic (fundamental) and the wave length of the first harmonic, and then use a string (frequency).



Examples of Standing Waves and their Harmonics					
1st Harmonic	2nd Harmonic	3rd Harmonic	4th Harmonic	5th Harmonic	6th Harmonic

Standing Waves Unit 10 3 C Stephen Murray Answers

Yi-Tong Ma



Standing Waves Unit 10 3 C Stephen Murray Answers:

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Standing Waves Unit 10 3 C Stephen Murray Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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