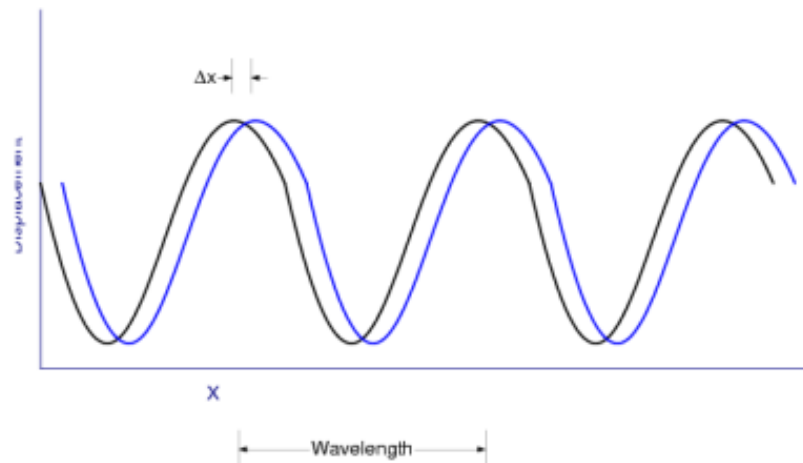


Travelling wave

This wave moves to the positive direction of x with speed s :

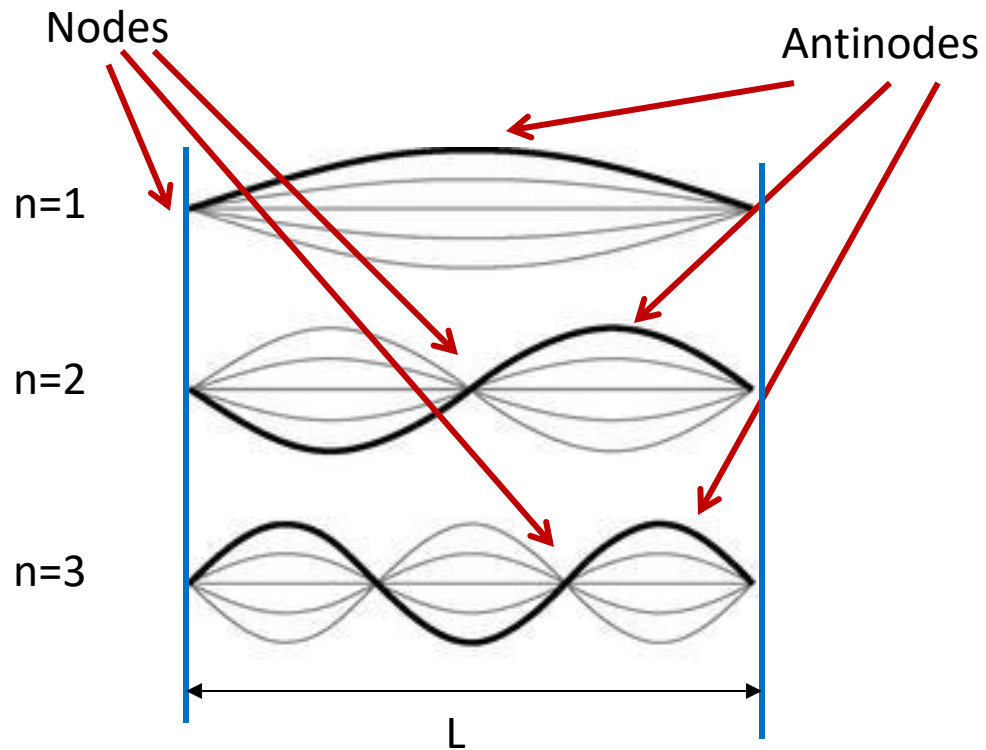
$$s = \frac{\lambda}{T} = \lambda f$$



Oscillations	Wave
Period [s]: T	Wavelength[m]: λ

Standing waves

$$\lambda = \frac{Ln}{2}, \quad n = 1, 2, 3, \dots$$



Homework

Use the dimensional analysis (method of units) to find the speed of a wave propagating along a stretched string. Note that it is not the speed of sound in the material of the string. The speed you need to find depends on the tension force F , mass of the string M , and its length L .