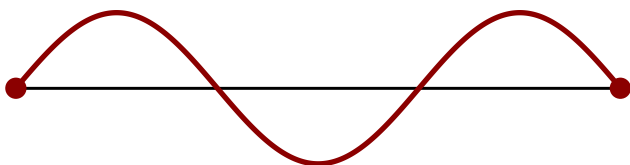


Question 1

A string with length L has both ends fixed. The third harmonic ($n = 3$) is illustrated.



Which of the following is true regarding the wavelength of this standing wave?

1. $\lambda = 2L$
2. $\lambda = \frac{3}{2}L$
3. $\lambda = L$
4. $\lambda = \frac{2}{3}L$
5. $\lambda = \frac{1}{2}L$

Question 2

A 1 m long string is stretched so that the frequency of the fundamental is 250 Hz.

Which of the following is/are possible as a the frequency of the harmonics?

1. 125 Hz
2. 300 Hz
3. 500 Hz
4. 600 Hz