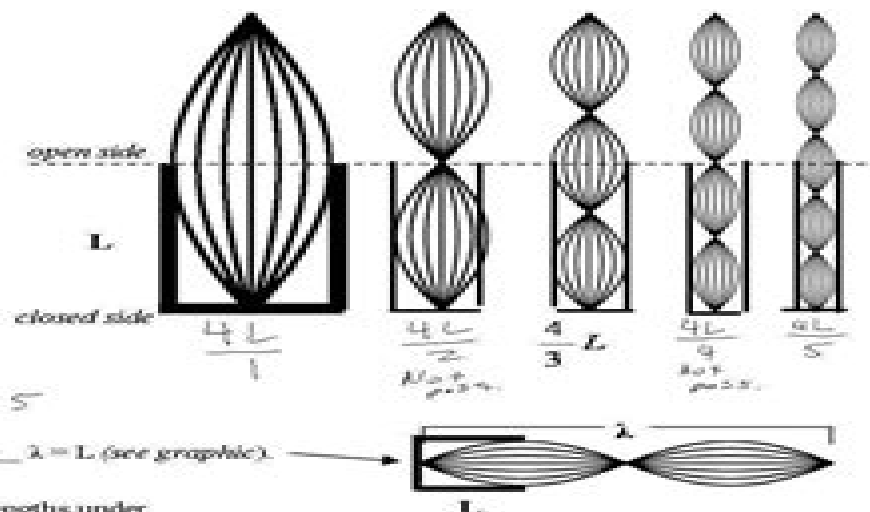


Harmonics in Closed Pipes

- 19) At the open end of a pipe is there a node or antinode?
 20) At the closed end of a pipe is there a node or antinode?
 So, there MUST BE a node at the closed end and the center of an antinode at the open end for the harmonic to exist.
 21) On the graphic at the right, let's pretend we have a pipe closed at one end, as shown on the fundamental. The length of the pipe is "L".
 22) Draw this same length pipe around each of the harmonics. The open end of each pipe will stop at the dotted line.
 23) Which harmonics can be produced in this pipe (which have an antinode at the open end)? 1, 3, 5
 24) So, for a pipe closed on one end (a closed pipe), give the sequence of what harmonics can be present. n can only = 1, 3, 5

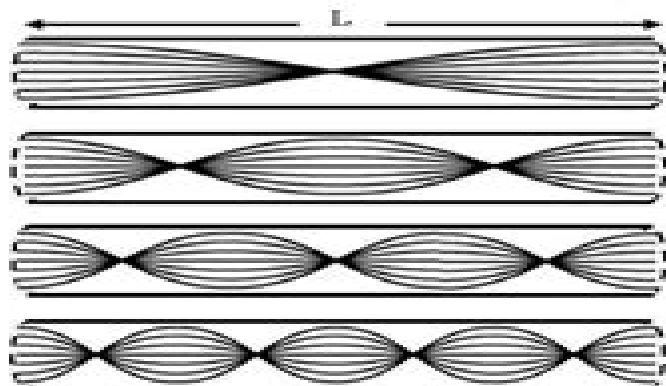


- 25) Since $2AN = 1\lambda$, then the first harmonic in this diagram, $\frac{1}{4}\lambda$ $\lambda = L$ (see graphic).
 26) So $\lambda = \underline{\frac{4}{1}} L$. Write this under H_1 .
 27) Use the same process as for the first harmonic, write the wavelengths under the harmonics (even the ones that can't really exist). H_2 and H_3 should be obvious.
 28) Remembering Q7-9: there must be a pattern that includes "n" sequentially. Find it.
 29) At the right, write the equation for the wavelength of a harmonic in a closed pipe:
 30) But which "n's" are possible? 1, 3, 5...

$$\lambda_{\text{closed pipe}} = \frac{4L}{n}$$

- 31) Calculate the wavelength of the third harmonic in a 60 cm long closed pipe (remember to convert to m).
 $\lambda_1 = 4L = 4(.6) = 2.4 \text{ m}$ $\lambda_3 = \frac{4L}{3} = \frac{2.4}{3} = .8 \text{ m}$

Harmonics in Open Pipes



- 32) Remembering the rule about nodes and antinodes, what must be present at the end of a pipe that is open?
 33) In order for a pipe to make a sound, it must have a standing wave in it, meaning it must have at least 1 node and 1 antinode (or more).
 34) For each successive harmonic the number of antinodes goes up by 1.
 35) For each successive harmonic the number of nodes goes up by 1.
 36) In the four open pipes at the left, draw the first four harmonics (number 1 is done for you). The nodes will be equally spaced and the center of an antinode must be at each end.
 37) On a string you count the number of AN to figure out which harmonic it is. For an open pipe, you count the number of Nodes to figure out which harmonic it is.
 38) Which harmonics can be present in an open pipe (which "n's" are present)? all of 'em

- 39) Using the same logic, figure out the sequence and give the equation for λ in an open pipe. (Hint: the drawing above will help.)

$$\lambda_{\text{open pipe}} = \frac{2L}{n}$$

$n = \text{all}$

- 40) What is the wavelength of the 3rd harmonic in a 80 cm long open pipe?

$$\lambda_1 = 1.6 \text{ m}$$

$$\lambda_3 = \frac{1.6}{3} = .53 \text{ m}$$

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Glaucoma Research and Clinical Advances John R. Samples,Paul A. Knepper,2018-04-24 Foreword Volume 2 of our serial publication continues our desire to address glaucoma with a combination of science and speculation As science expands the emphasis is on data interpretation and dogma We disagree open minds open new approaches Using methodologies that are primarily molecular and genetic we seek to refine the causes of glaucoma as well as how it is best treated especially incorporating thoughts and hypotheses about new methods of treatment Glaucoma is a complex disease and genetics proves that a variety of proteins are culpable at one level At another level however there are likely final common pathways and numerous feedback loops which have defied explanations to date The search for answers goes on in basic science researcher s laboratories and clinical ophthalmologist s offices and operating rooms We are all well served by understanding that glaucoma is a neurodegenerative disease Current attempts to solve the disease have focused on two strategic arenas the trabecular meshwork function and its impact on intraocular pressure as a major risk factor for the disease and the optic nerve dysfunction leading to visual loss Genetic mutations have yielded puzzling clues to the cause but without resolution For example mutations in myocilin and optineurin genes are closely connected to the phenotype but how do they cause the disease In the next two years priority areas of research are signaling pathway discoveries biomarker panels epigenetic factors and continued genomic studies to yield answers to the common final pathways of the disease The final pathways are complex and redundant such that the overlap of bio informatics will be challenging Current promising leads suggest the innate immune system holds important clues to both trabecular meshwork and optic nerve pathophysiology When the primary open angle glaucoma disease pathways are unraveled drug discoveries and new treatment modalities will

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