Harmonics 5

- Waves ore mode on a string of length L.
- The waves have speed V.
- O Determine the wavelength and of frequency of the first 6 harmonics in terms of L and V.

Hormonic warelength frequency

2

3

4

5

Dusing the pattern you determined in this them patterns table, determine a formula for two frequency of the uth harmonic for in terms of 11 and the their fundamental frequency fi.

Harmonics & (part 2)

- waves are made inside a tabe with one end open and one end closed.
- The tube has length L and the house
- 3 Determine the novelength of the out the frequency of the first 6 harmonics in terms of L and V.

Hurmonic wavelength Frequency.

1
2

4

3

Gusing the pattern you determined in this table, determine a formula for the frequency of the 1th hermonic for in terms of I and the fundamental frequency f.