

1. A 0.70-m long guitar string vibrates with standing waves. The first harmonic has a frequency of 261 Hz.

- A) Sketch the standing wave patterns for the first three harmonics.
 B) Calculate the wavelength of the first three harmonics.
 C) Calculate the frequency of the first three harmonics.



$$\lambda = \frac{2L}{n} = \frac{2(0.70)}{1} = 1.4 \text{ m}$$

$$f_1 = 261 \text{ Hz (given)}$$



$$\lambda = \frac{2L}{n} = 0.70 \text{ m}$$

$$f_2 = 2f_1 = 522 \text{ Hz}$$



$$\lambda = \frac{2L}{n} = 0.47 \text{ m}$$

$$f_3 = 3f_1 = 783 \text{ Hz}$$

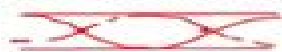
2. An open air column 0.70 m long produces standing waves.

- A) Sketch the standing wave patterns for the first three harmonics.
 B) Calculate the wavelength of the first three harmonics.
 C) If the air temperature is 20.0 °C, calculate the frequency of the first three harmonics.



$$\lambda = 2L = 1.4 \text{ m}$$

$$v_{\text{sound}} = 332 + (0.6T) = 332 + (0.6 \cdot 20) = 344 \text{ m/s}$$



$$\lambda = L = 0.70 \text{ m}$$

$$v = f \cdot \lambda \quad \therefore f_1 = \frac{v}{\lambda_1} = \frac{344}{1.4} = 246 \text{ Hz}$$



$$\lambda = \frac{2}{3}L = 0.47 \text{ m}$$

$$f_2 = \frac{v}{\lambda_2} = 491 \text{ Hz}$$

$$f_3 = \frac{v}{\lambda_3} = 737 \text{ Hz}$$

3. A closed air column 0.70 m long produces standing waves.

- A) Sketch the standing wave patterns for the first three harmonics.
 B) Calculate the wavelength of the first three harmonics.
 C) If the air temperature is 20.0 °C, calculate the frequency of the first three harmonics.



$$\lambda_1 = 4L = 2.8 \text{ m}$$

$$v_{\text{sound}} = 344 \text{ m/s}$$

$$f_1 = \frac{v}{\lambda_1} = 123 \text{ Hz}$$



$$\lambda_2 = \frac{4}{3}L = 0.93 \text{ m}$$

$$f_2 = \frac{v}{\lambda_2} = 370 \text{ Hz}$$



$$\lambda_3 = \frac{4}{5}L = 0.56 \text{ m}$$

$$f_3 = \frac{v}{\lambda_3} = 614 \text{ Hz}$$

4. Two horns emit sounds of frequency 665 Hz and 671 Hz. What is their beat frequency?

$$f_{\text{beat}} = |f_2 - f_1| = |665 - 671| = 6 \text{ Hz}$$

5. A piano tuner hears one beat every 2.0 s when trying to adjust two strings, one of which has a frequency of 440 Hz. What are the possible frequencies of the second string?

$$f_{\text{beat}} = \frac{c}{t} = \frac{1}{2} = 0.5 \text{ Hz}$$

$$f_{\text{beat}} = |f_2 - f_1| \quad 0.5 = |440 - f_1|$$

$$\therefore f_1 = 440 \pm 0.5$$

$$f_1 = 439.5 \text{ Hz or } 440.5 \text{ Hz}$$

Physics 2204 Guitar Stse Answers

Judd E. Hollander



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