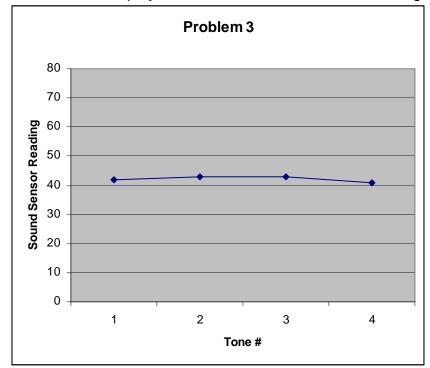
Quiz: Frequency and Amplitude

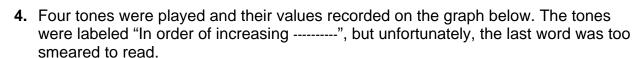
Introduction to Mobile Robotics > Frequency and Amplitude Exploration

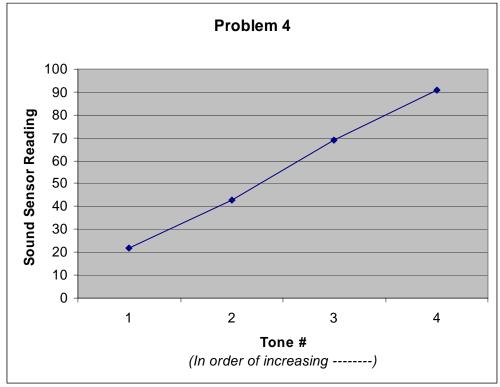
- **1.** Amplitude of a sound wave is perceived as (circle the correct answer):
 - i. The volume of the tone
 - ii. The pitch of the tone
 - iii. The timbre of the tone
 - iv. The rhythm of the tone
- 2. Frequency of a sound wave is perceived as (circle the correct answer):
 - i. The volume of the tone
 - ii. The pitch of the tone
 - iii. The timbre of the tone
 - iv. The rhythm of the tone
- 3. Four tones were played and their values recorded on the graph below.



- i. Did the Sound Sensor detect any difference between the tones? Explain.
- ii. Does this prove conclusively that the tones were the same, different, or neither? Explain.

NAME





- i. Did the Sound Sensor detect any difference between the tones? Explain.
- ii. Is there a clear pattern to the way in which the Sound Sensor values changed based on the differences between these four tones? Explain.
- iii. Does this pattern resemble the results you got for either frequency or amplitude in the Frequency and Amplitude Exploration?