- PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM
- 1. To answer the questions in this homework you need to <u>review Lectures 16 and 17</u> (all about sound waves).
- 2. What kind of wave is sound?
- **3.** How many <u>vibrations per second</u> does the *lowest pitch typically audible by humans* have?
- 4. Refer to Slides ##2-3 of Lecture 17:
 - a. What is the <u>difference in the intensity of sound (in db</u>) between a *normal conversation and a loud rock concert*?
 - b. What can you say about the corresponding sound energy difference?
- 5. How long will it take for a sound wave to travel 1 mile (about 1.6 km) in the air?
- 6. Suppose you could yell "Hello!" underwater 😇. At least how far away an <u>underwater mountain</u> must be to produce a clear echo?