
PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM

1. To answer the questions in this homework you need to review Lectures 13 and 14 (all about sound waves).

2. What kind of wave is sound?

3. How many vibrations per second does the *lowest pitch typically audible by humans* have?

4. Refer to Slides ##2-3 of Lecture 17:
 - a. What is the difference in the intensity of sound (in db) 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 underwater mountain must be to produce a clear echo?