
PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM

1. To answer the questions in this homework you need to review Lectures 18 and 19 (all about sound waves). Always show your work where appropriate!

2. Refer to Slide #2 of Lecture 18. What kind of wave is sound?

3. Refer to Slide #5 of Lecture 18. How many vibrations per second does the *lowest pitch typically audible by humans* have?

4. Refer to Slides ##2-3 of Lecture 19:
 - a. What is the difference in the intensity of sound (in db) between a *normal conversation and a loud rock concert*?

 - b. What is 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?