

## HIP 07 (This is a practice problem; not graded)

### COMMENTS:

- Problem 1 is a list of suggested Student Workbook Volume 1 problems to practice in your spare time. You do not need to turn these in, they will not be graded. I recommend working through these before attempting problem 2, or if you get stuck while working on problem 2.
- Problem 2 will be graded based off of the HIP rubric.

(1) CH 16: 1, 2, 3, 5, 6, 7, 10, 11

(2) Two loudspeakers are placed 3.00 meters apart, as shown in the figure below. They emit 474-Hz sounds, in phase. A microphone is placed 3.20 m distant from a point midway between the two speakers, where an intensity maximum is recorded. How far must the microphone be moved to the right to find the first intensity minimum?

