

Problem Set #9

Physics 302

Tuesday, 16 April 2024

The following problems come from *Vibrations and Waves* (1971), by A. P. French.

- Problem 5-14 on page 157 \Rightarrow (*10 points*) This is a *very* short problem. If you have never created a matrix before, it is time to do so.
- Problem 5-15 on page 157 \Rightarrow (*15 points*) The differential equations for part (a) may be written down immediately from equation (5-16) on page 137. Your solution to Problem 5-14 may be used for part (b).
- Problem 5-16 on page 158 \Rightarrow (*10 points*) This is a short problem. Think about how equations (5-19) and (5-21) on page 140 may be used.
- Problem 6-1 on page 196 \Rightarrow (*10 points*) All you need to solve this problem is what you were taught at the end of Physics I.

Due date: **Thursday, 25 April 2024** (*beginning of class*)