

Instructor: Michael Lerner, CST 213, Phone: 765-983-1784

Final, optional HW assignment. Due Wednesday of final's week at noon.

1 Extending our work on the plucked string

In class, we looked at the plucked, vibrating string. Now we want to know what happens if, rather than plucking the string from the middle, we pluck it near one side. Solve Chapter 13, section 4, problems 2 and 3. Compare the **sound** you would hear in the problem we solved in class vs. these solutions (you may want to reference Chapter 7 section 10, but the basic idea is to look at the coefficients). Plot the results in an IPython notebook (feel encouraged to steal code from the notebook we used in class), and comment on whether they look like what you'd expect at first, and at some large time in the future. Compare those plots to your answer about sound.