

## Reading and HW #7 PHY360 Fall 2016 Due 11/4/2016

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### Reading

Please read Chapter 6 and begin reading Chapter 7.

### Problem #1 Sound Waves

6-7 In French: Re-derive the wave equation for sound waves in an air column. Make sure you understand the notation!

### Problem #2 Energy in Continuous Systems

Problem 6-11 in French: Energy in oscillating string - partitioning of energy into normal modes!

### Problem #3 General String Excitation

6-12 In French: Understand an initial condition problem and subsequent evolution.

### Problem #4 Fourier Analysis

6-14 In French: Fourier Series!

### Problem #5 Fourier Analysis

6-15 In French: Fourier Series and 1D waves.