

Lecture 32

Pre-Lecture Preparation (due within the first 5 minutes of class):

- Read p. 458 – 468
pay particular attention to the chart on p. 460 and the simple pendulum p. 464-465
- Ch 15 Objective Questions: 1 and 12
- Ch 15 Problem: 24

Goals for the Lecture:

- 1) Understand that cyclical motion can be described by sin and cos trig functions
- 2) Understand how energy is conserved in SHM and use it to solve problems
- 3) Understand how these concepts relate to the pendulum and use them to solve problems

Post-Lecture Study Guide:

Review the worksheets or other lecture material within 24 hours (preferably the same day as the lecture) to reinforce the ideas.

Do problems:

Ch 15: Problems: 27 and 35

Continue with the additional recommended study problems from chapter 15