Reading and HW #5 PHY360 Fall 2016 Due TUESDAY 10/11/201

Reading	Please read Chapter 5 of the textbook (A.P. French, "Vibrations and Waves").
Problem #1 Coupled Pendulums	Problem 5-2 in the textbook. Review the two pendulums $+$ coupling spring solution we worked out in lecture.
Problem #2 Coupled Masses	Problem 5-6 in the textbook. Apply what you know about coupled systems to two masses connected to walls and each other by 3 springs.
$egin{array}{c} ext{Problem } \#3 \ ext{CO}_2 \end{array}$	Problem 5-9 in the textbook. Real world application - vibrational modes of CO_2 molecule.
Problem #4 2 Hanging Spring	Problem 5-10 in the textbook. More general coupled systems with 2 degrees of freedom - normal symodes.
Problem #5	Problem 5-12 in the textbook. Study driven coupled oscillators - set up equations of motion.

Driving coupled

systems