

GROUP MEMBERS:

CE 8060 – STRUCTURAL DYNAMICS
Homework #10

Assigned: Thursday, September 18, 2014
Due: Tuesday, September 23, 2014 (beginning of class)

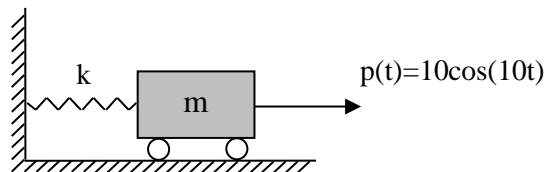
Homework must be done neatly in pencil, on 8 ½" x 11" paper, stapled together. Each step must be easily followed; diagrams are useful. Your assumptions must be clearly stated.

Make Sure to Include The Cover Page!

Make Sure to Write Both Group Members' Names!

Problem1: (10 points)

Determine the expression for displacement and velocity of the harmonic motion of the system, which was initially at rest.



$$k = 40 \text{ lb/in}$$
$$m = 38.6 \text{ lb}$$