In this project you will study several modifications of the models for the 
damped harmonic oscillator which model various situations more realistically. 
This is Lab 2.3 in the text.

In your writeup, please include the following:

1. The writeup as described in Lab 2.3.

2. For each modification of the standard damped oscillator, comment on 
how far the solutions deviate from those of the standard damped oscil-
lator. Can you say anything about the conditions under which it would 
be advisable to use the more complicated model?