

350: Homework 5 Due: 8/March

1. Do 6.5.6
2. Do 6.8.5
3. Do 6.8.6
4. Do 6.8.7
5. Do 6.8.8

Computer Aided Homework

- C.1. Plot the phase portrait for the linearly damped pendulum

$$\ddot{\theta} + \dot{\theta} + \sin(\theta) = 0.$$

- C.2. Plot the phase portrait for the non-linearly damped pendulum

$$\ddot{\theta} + [1 + \cos(\theta)]\dot{\theta} + \sin(\theta) = 0.$$