图片包含 水, 船, 男人, 桌子

描述已自动生成Undriven, undamped simple harmonic approximator (get this joke?):

Choose the same initial condition. T=0, y=1, y’=0. Plot for 5 different omega0.

图片包含 水, 不同, 桌子, 船

描述已自动生成Damped, undriven harmonic approximator:

Demonstrate under, critical and over damp system.

地图的截图

描述已自动生成Driven, undamped approximator:

Plotting the full solution (homogeneous part (short term)+ inhomo part(long-term)).Resonance at driven frequency equals nature frequency. Stable (long-term) behavior, solution oscillate at driven frequency.

图片包含 白色, 电脑

描述已自动生成图片包含 地图, 船, 大, 水

描述已自动生成Plotting Amplitude of inhomo solution – frequency and (Phase difference of inhomo solution)/pi – frequency with damping term.

地图的截图

描述已自动生成Driven, damped: