

NAME: \_\_\_\_\_

$$x''[t] + 2\beta x'[t] + \omega_0^2 x[t] == Q_0 \text{Exp}[i\omega_D t]$$

**Problem 1:** (20 Pts) Given the above notation, examine the figure below, and provide as much detail as possible about what parameters were used to generate the plots below. I want to know about the initial conditions, the relative size of the pieces, and any other information you can glean from the plot.

(Hint: the first two plots have many parameters in common.)

