Team 1 Final Exam Report

Problem 1

Initially we defined the variables given, converted them to standard metric unit, and created a position graph of the function. The first equation, tDam is a the full equation, extending out form t = 0, to t = 1 seconds to illustrate the damping of the equation. Then, to find the 3 points where the equation resets to its neutral state, y(0), we used the secant method to iterate through our equation. For our Matlab code, we created two different files FirstProblem.m to run the main calculation, and SecantRoot.m to do the secant method calculation.

Code display:

File name: FirstProblem.m

Code: