

CE 329 Fall 2015
Class 14 Worksheet

If the best second order polynomial fit to the data is $n_A \approx 1.83t^2 - 68.1t + 758.3$, calculate $\frac{dn_A}{dt}$ for the third data point in the data table.

Calculate $\frac{dn_A}{dt}$ for the third data point in the table using forward differences

Calculate $\frac{dn_A}{dt}$ for the third data point in the table using backward differences

Calculate $\frac{dn_A}{dt}$ for the third data point in the table using central differences

Write the linearized model equation to be fit to the data, identifying y, the x's, the slopes and the intercept.