**ENGR 340-Introduction to Environmental engineering**

To: Deborah Sills

From: Loujin Daher

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Re: Nonlinear Curve Fitting

**Objective:**

The objective of this lab is to learn creating a high quality graphs using Kaleidagraph. Also, analyze the data and fitted models presented in these graphs.

**Part I:**

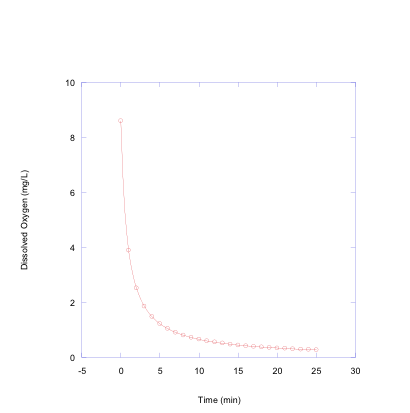


Figure 1. Measured dissolved oxygen in mg/L over time in minutes fitted in a Second Order Reaction, with Reaction Rate Coefficient (k) = 0.14.

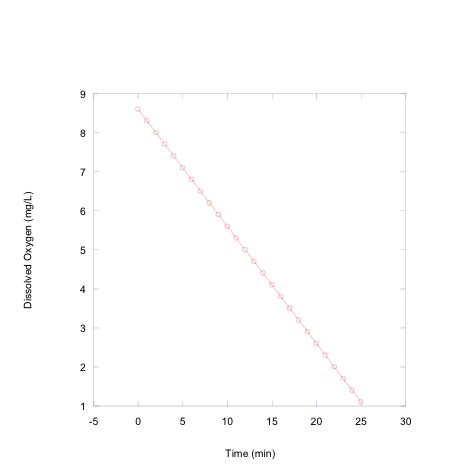


Figure 2. Measured Dissolved Oxygen in mg/L over time in minutes fitted in a Zero Order Reaction, with Reaction Rate Coefficient (k) = 0.3 .

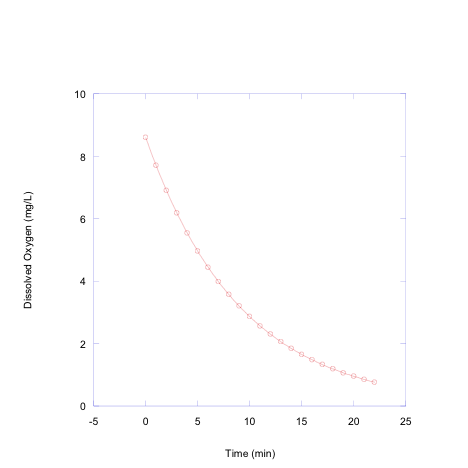


Figure 3. Measured Dissolved Oxygen in mg/L over time in minutes fitted in a First Order Reaction, with Reaction Rate Coefficient (k) = 0.11.