Samantha Sun

BIOEN585

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Lab 6

# Question 1: Graphing data

# Question 2: Setting up ODE model

# Question 3: Solving model with initial guesses

# Question 4: Parameter estimation

Assume a constant standard deviation for the errors for your weighting scheme.

1. Plotting best parameters
2. Analysis of parameters
3. Residuals

# Question 5: Addressing negative control data

1. Plotting new model
2. Determining if approach is better

# Question 6: Using a different weighting scheme

1. Plotting new model
2. Parameters and initial conditions
3. Plotting residuals
4. Objective function changing
5. Comparison of new weighting scheme