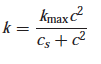
**Assgn8 CLL113**

Q1. An investigator has reported the data tabulated below for an experiment to determine the growth rate of bacteria k as a function of oxygen concentration c (mg/L). It is known that such data can be modeled by the following equation:



where cs and kmax are parameters. Use a transformation to linearize this equation. Then use linear regression to estimate cs and kmax and predict the growth rate at c = 2 mg/L.



Q2. If it is known that the data follows the following relation



Use **nonlinear regression** to estimate α4 and β4 based on the following data. Develop a plot of your fit along with the data.

