Assignment 1

The following data indicate the relationship between the amount of β-erythroidine in an aqueous solution and the colorimeter reading of the turbidity:

X Concentration (mg/mL)	Y Colorimeter Reading
40	69
50	175
60	272
70	335
80	490
90	415
40	72
60	265
80	492
50	180

(a) Fit a simple regression to the data.

(b) Obtain the residuals and examine them.

(c) Comment on the adequacy of the model.

Please include your R codes as well.