EQ:

- Residual Plots - _____ of the_____ _____ against

   _____ value; assess how _____ a _____ fits

   _____ Association : _____ _____ Evident

   _____ Association : _____ Evident

Based on the given residual plot, determine if a linear association exists between the data. Justify your answer.
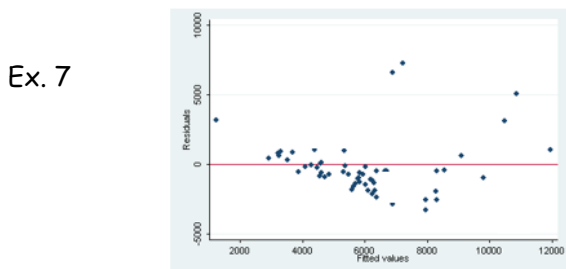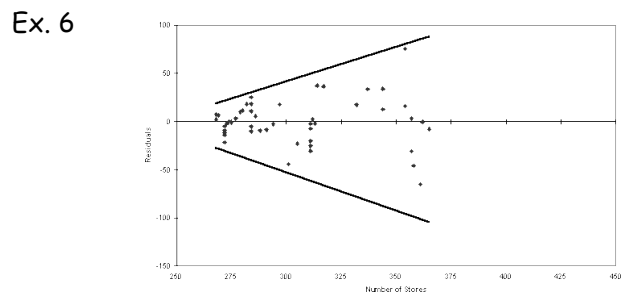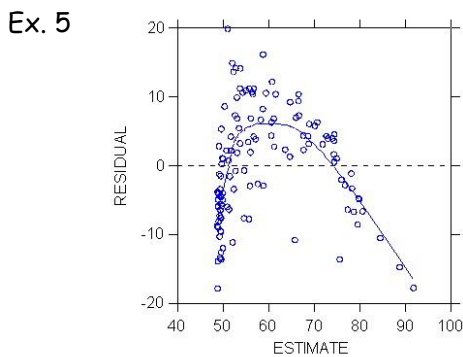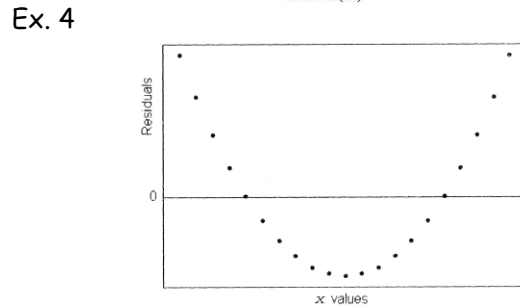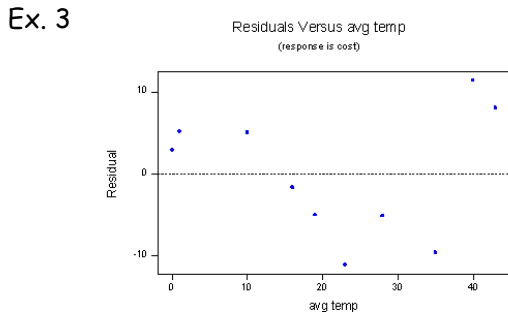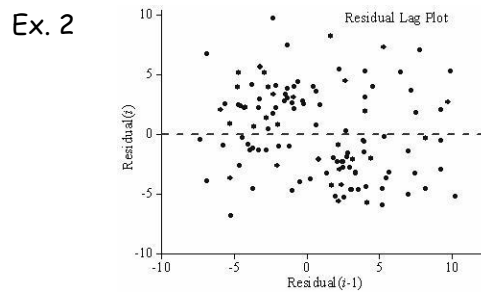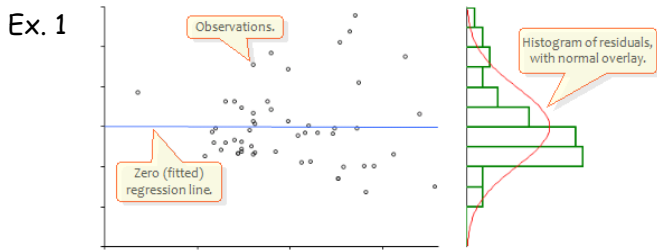
Ex. 1

Ex. 2

Ex. 3

Ex. 4

Ex. 5

Ex. 6

Ex. 7

Although a linear model seems be appropriate, there appear to be too many _____ residuals, implying this line_____ the data.

Ex. 8
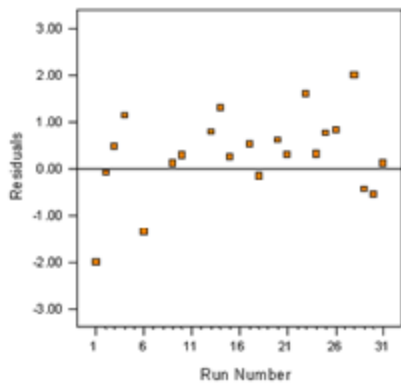
Although a linear model seems be appropriate, there appear to be too many _____ residuals, implying this line_____ the data.
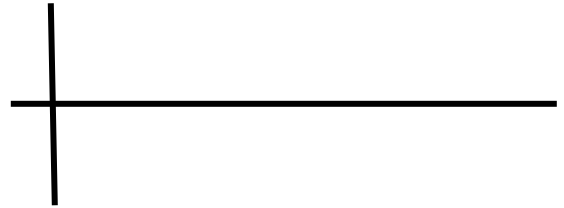
➤ Use your graphing calculator to create a residual plot using NEA and FAT.

• To make sure the LAST regression equation your calculator found was for NEA vs FAT, recalculate the **scatterplot** and the **LSRL** for NEA vs FAT.

• RESID is the list of the LAST RESIDUALS your calculator created.

• Use ZOOM9.   Compare to Residual Plot on p. 219.
 Sketch the residual plot.

❖ How well do you think the regression line fits this data?

❖ How comfortable are you using this linear model to make predictions?

➤ Go back to WS "Calculating Regression Lines". Answer the question in Part III.

<u>MUST HIT Points When Discussing Whether Linear Association is Appropriate:</u>

1.

2.

3.

4.

❖ Know the Difference Between a **<u>Normal Probability Plot</u>** and a **<u>Residual Plot</u>**

_____   ➡   _____

_____   ➡   _____
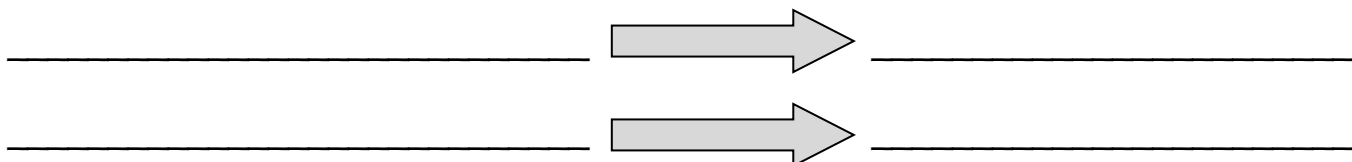
➤ Assignment: p. 220 - 222 #39, 40, 42   p. 227 – 228 #43, 44, 47, 48   p. 230 – 233 #49 – 51, 53, 55