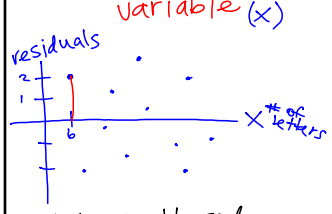
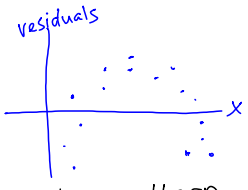
3.2b

Residual Plot:

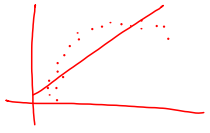
A scatterplot of residuals (y) vs. explan. variable (x)



points scattered with NO pattern = straight line is a good fit



obvious pattern = straight line is NOT a good fit



on calc:

① enter data into 2 lists

② Run LinReg

③ statplot → Xlist: L1 (explanatory variable)
Ylist: Resid

2nd → list → stat → 7: Resid

④ graph, zoom: 9

r^2: Coefficient of Determination

Tells the % of the variation in the response variable that is explained by the LSRL.

To interpret r^2:

" r^2 % of the variation in the response var. can be explained by the regression line."

S: standard deviation of the residuals
How far are the points from the line on average

Influential Point:

A point that makes a large difference in the equation of the LSRL.