

this time: ANOVA
 next time: ↓
 time:

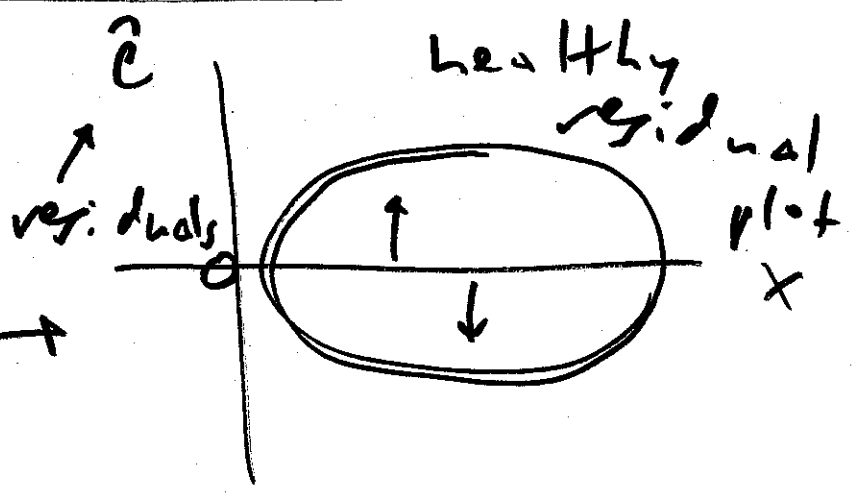
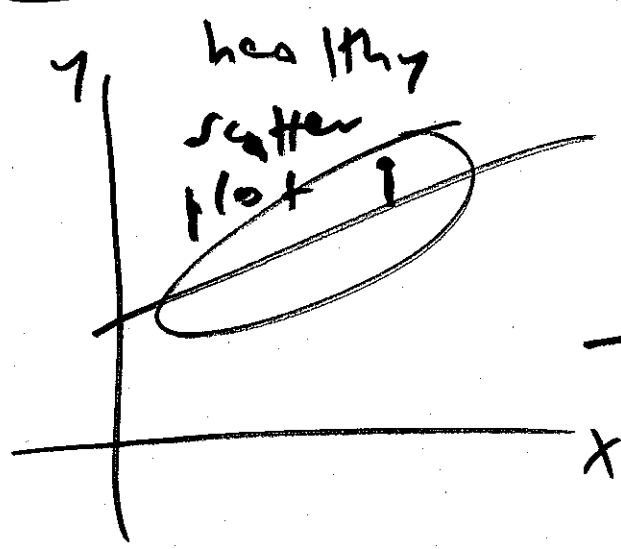
read: T&T ch. (11)

19 Nov
 08
 AMST

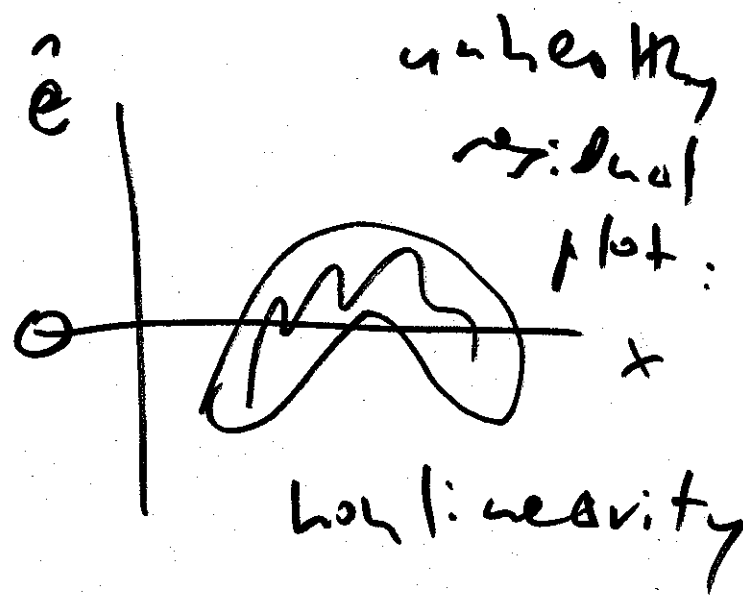
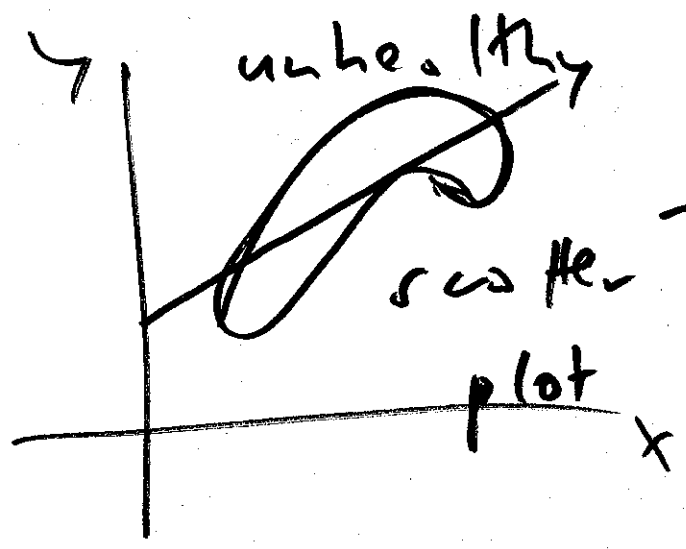
hwk 4 due Mon 24 Nov

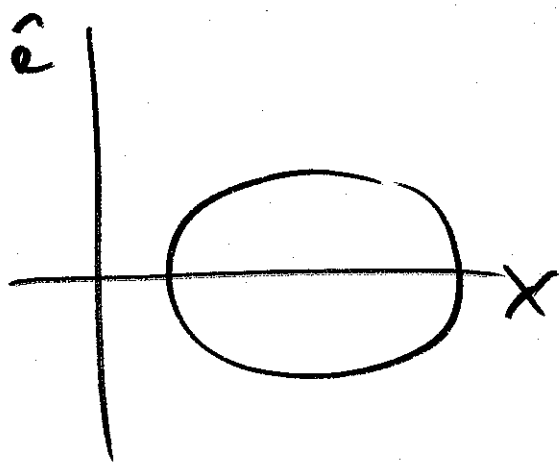
lab 6 due by 5pm this Fri
 21 Nov

lecture notes pp. (250) - (281)



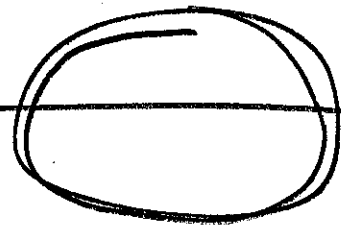
$$\hat{e} = y - \hat{y}$$





\hat{e}
residuals

same shape (2)



\hat{y}
predicted
values

official
residual plot
($\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 x$)

simple linear regression

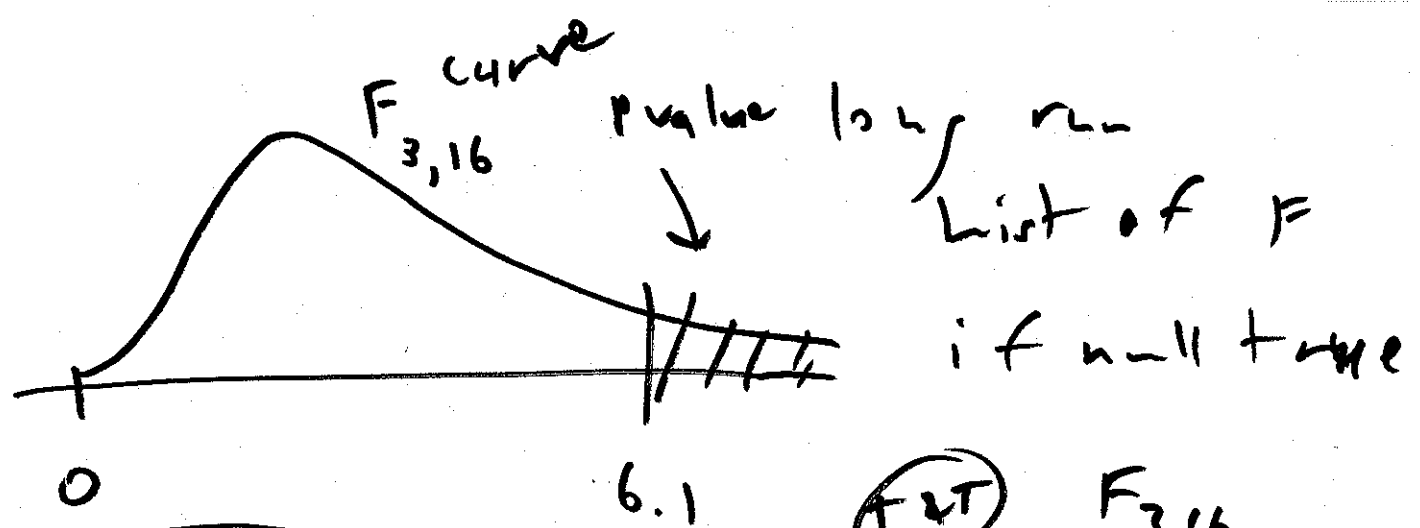
$$y_i = \beta_0 + \beta_1 x_i + e_i$$

more than (1) x :

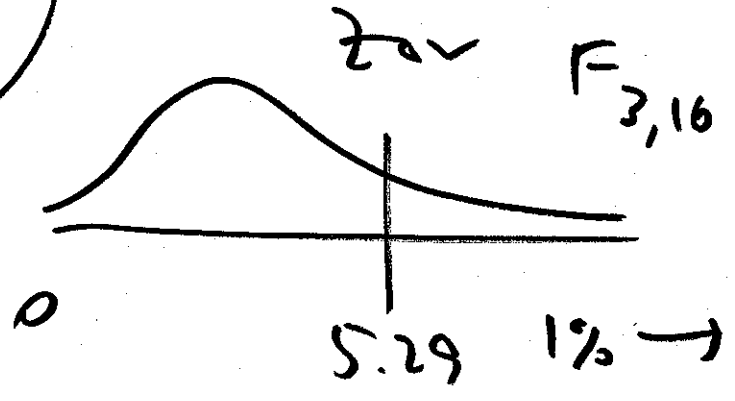
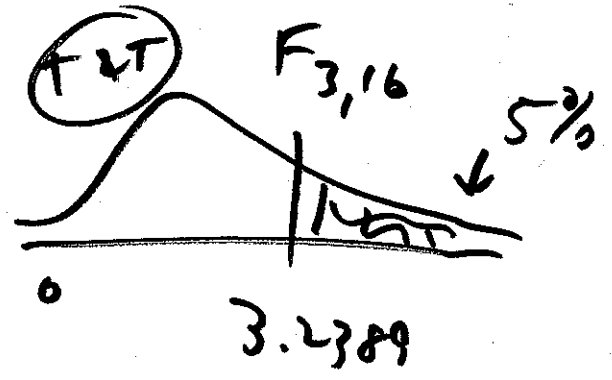
multiple
linear
regression

$$y_i = \beta_0 + \beta_1 x_{i1} + \beta_2 x_{i2} + \dots + \beta_k x_{ik} + e_i$$

$$n_1 (\bar{y}_1 - \bar{y})^2 + n_2 (\bar{y}_2 - \bar{y})^2 + n_3 (\bar{y}_3 - \bar{y})^2 + n_4 (\bar{y}_4 - \bar{y})^2$$



$P < 5\% \leftrightarrow$
 stat sig differences
 among waters



$1\% < P < 5\%$

