

this regression;  
 time:  
 next ANOVA  
 time:

read: LN pp. L-  
 (269) → L-(301)

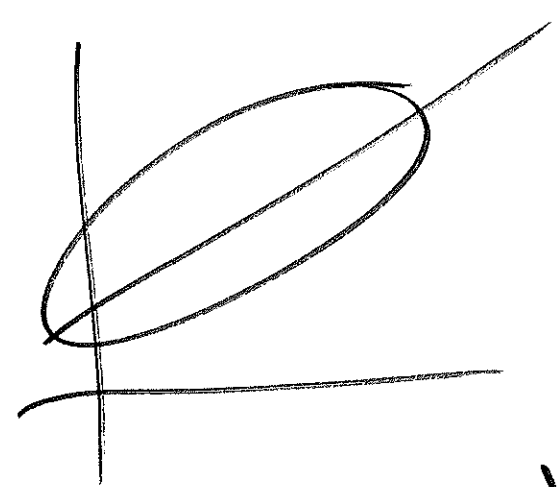
STAT 7  
 2 Dec 19

L-(221) ①

L-(216)

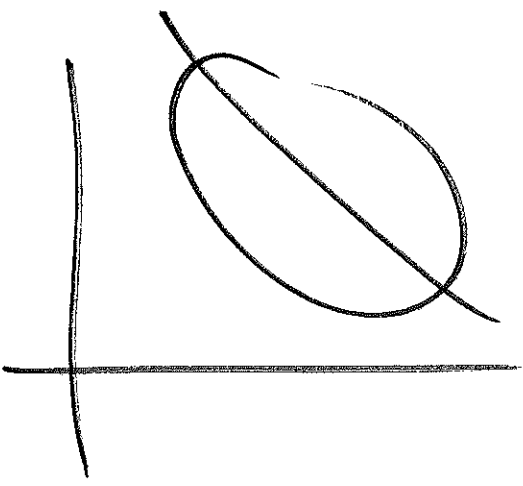
$r = +.87$

$\hat{SE}_{\text{IID}}(\hat{\beta}_1) : R-(25), f. (18), (19)$



pred. y-value

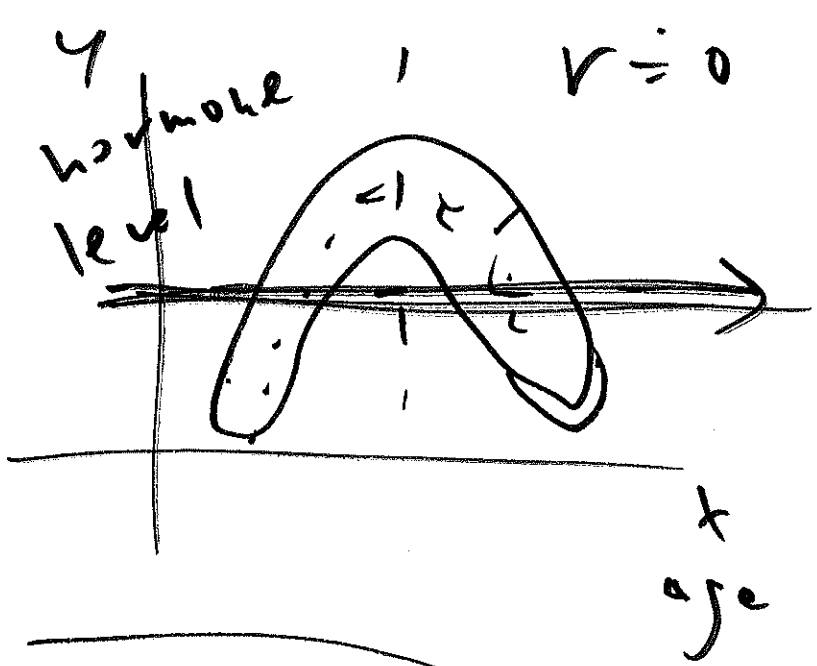
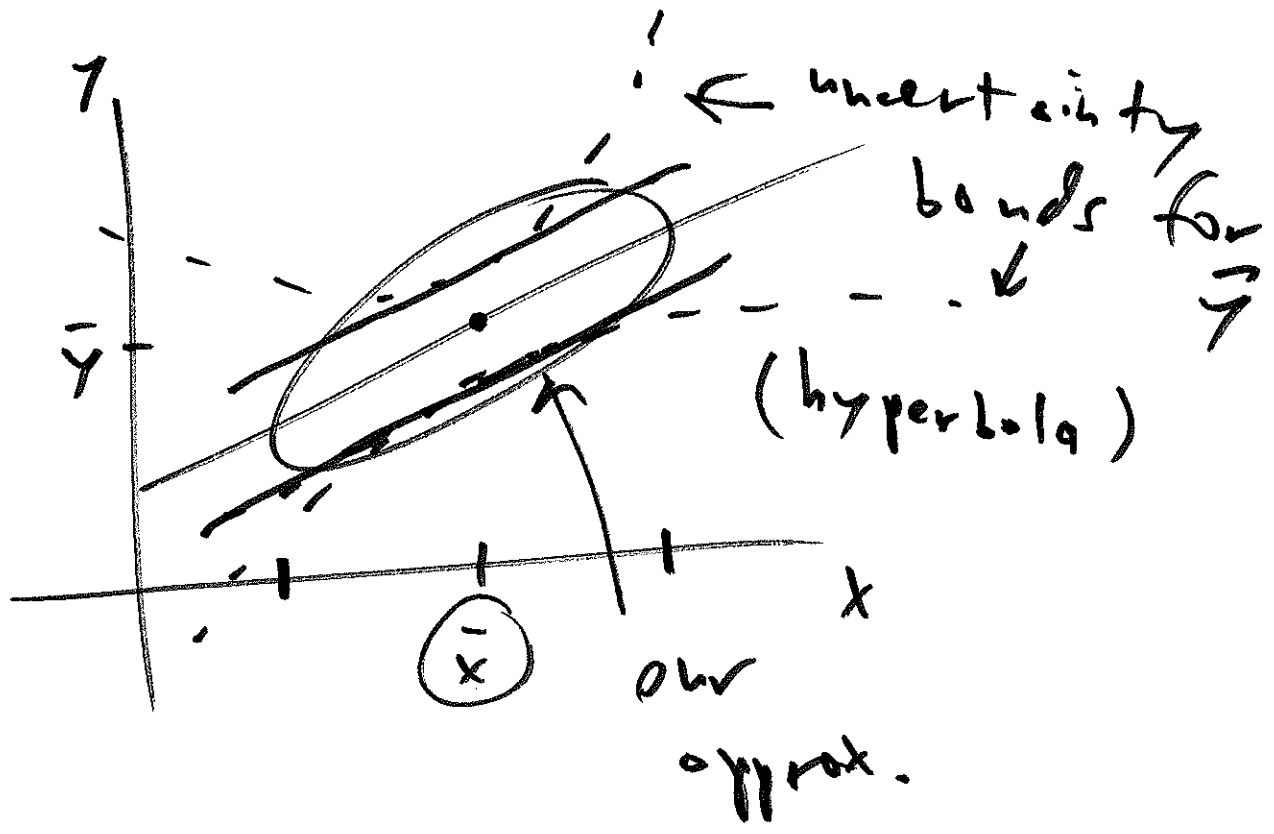
$\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 x$



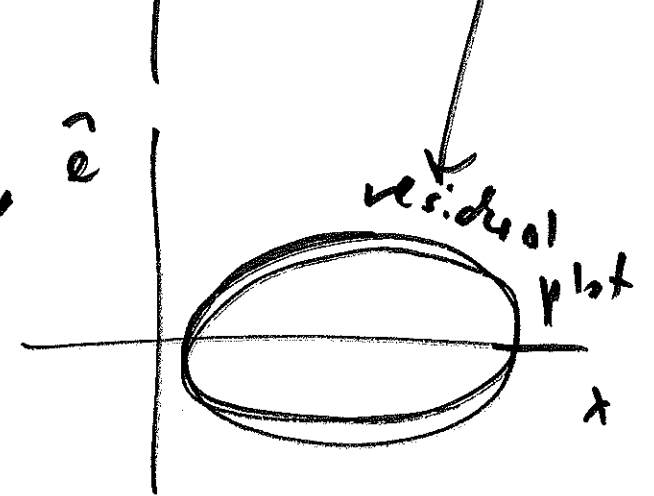
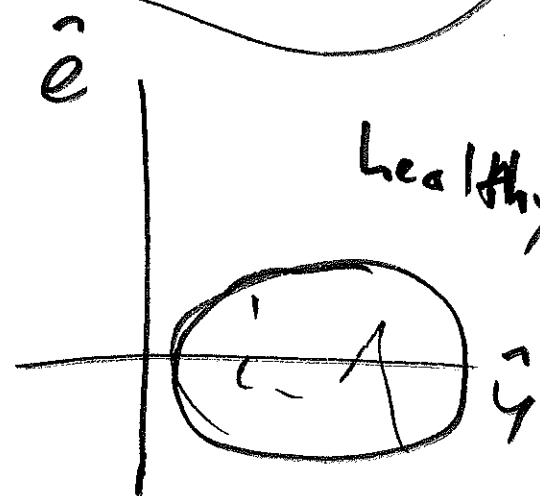
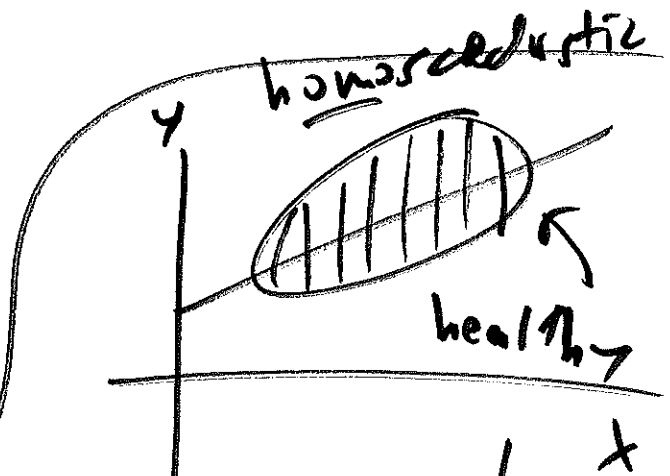
$\hat{SE}(\hat{y}) = s_{y|x}$

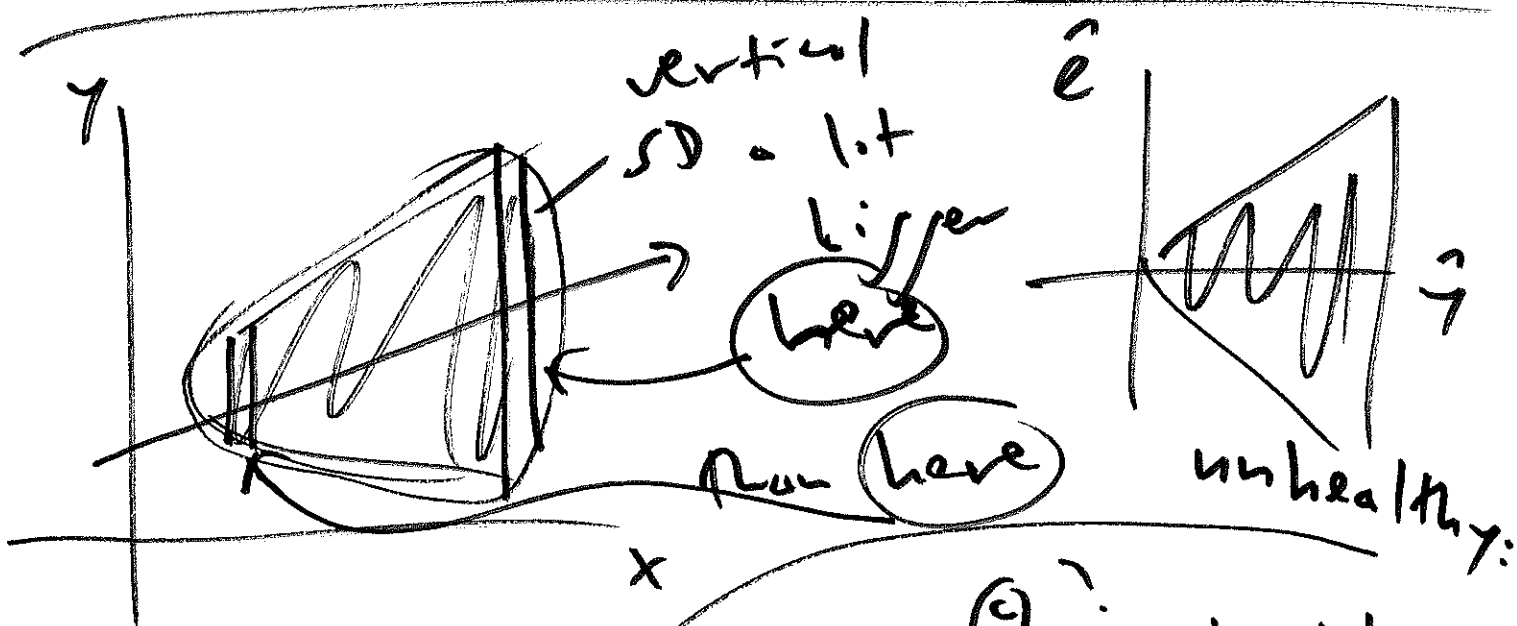
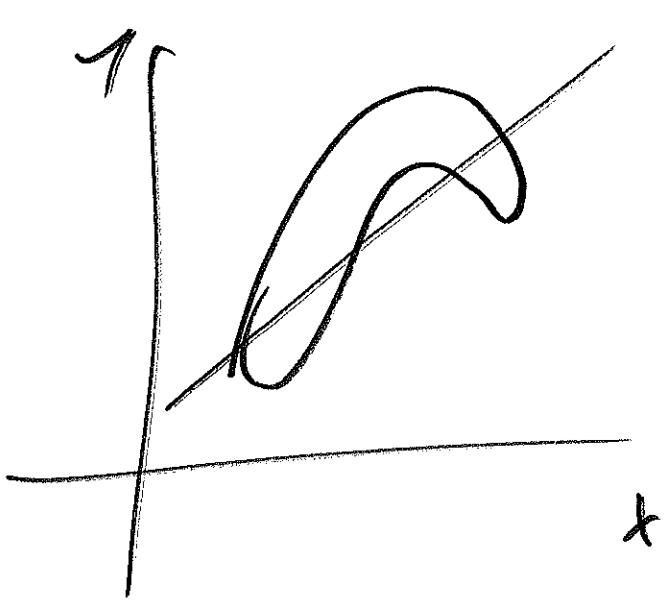
give or take for  $\hat{y}$

approx.



$$\hat{\beta}_1 = r \frac{s_y}{s_x} = 0$$





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

(size of a plant)

$y$  height  
 $x_1$  # leaves  
 $x_2$  weight  
 $\dots$