this time: regression; ANOVA

next time ↓ 8.54

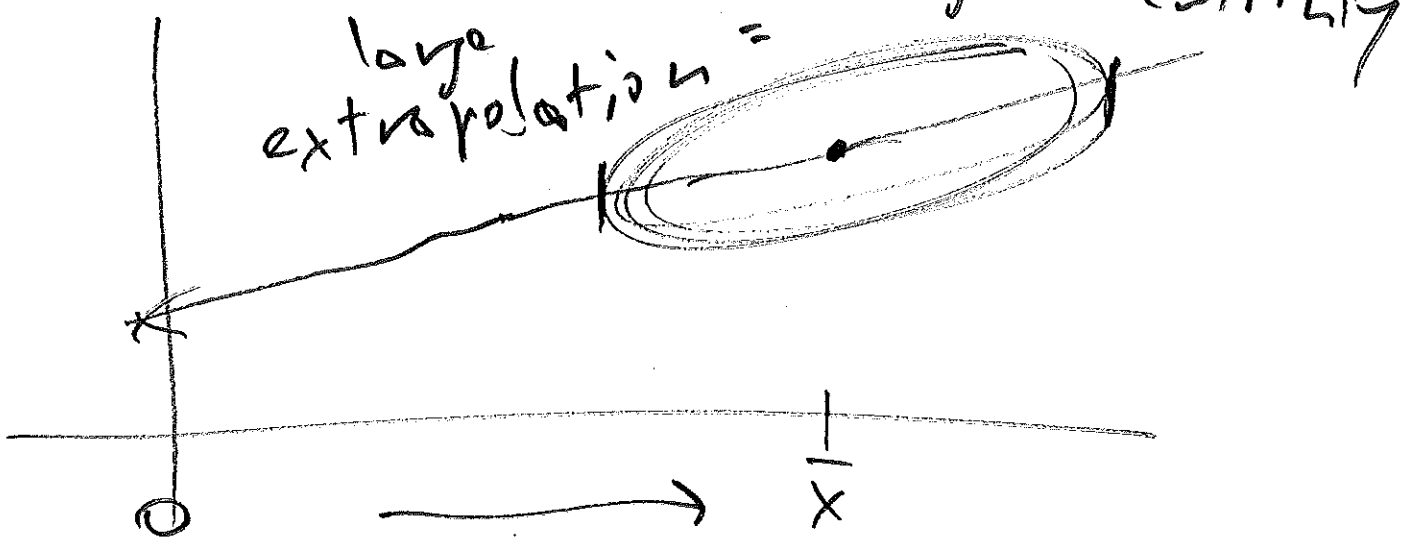
read: LN pp. L-269 → L-282

AMS 7 17 NOV 15

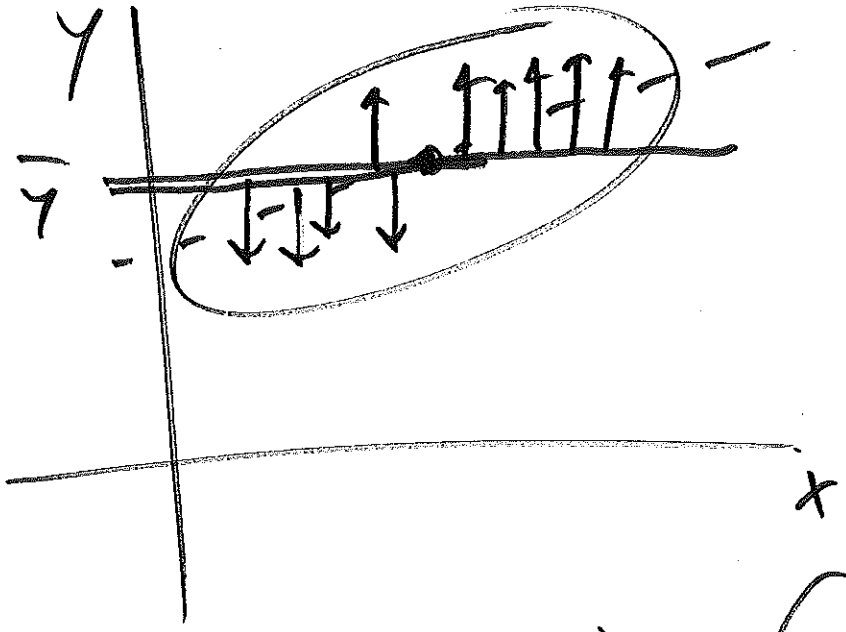
today: LN p. L-248 → 268

hwk 4 due next time (Thu 19 Nov) in class

no AMS 7 at all next week: no classes, no disc. sections; no 7L either



warning: risky to extrapolate regression predictions outside the observed range of x



① ignore x (or you don't have x),

$\hat{y} = \bar{y}$

& $SE(\hat{y}) = s_y$

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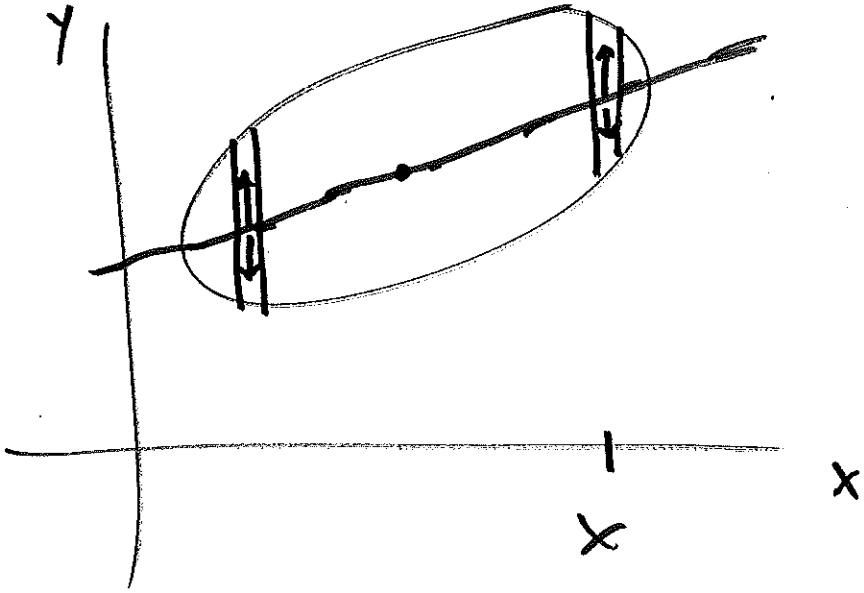
② use x to predict y:

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



$\hat{SE}(\hat{y}) =$

$$\frac{s_y \cdot \sqrt{1-r^2}}{\text{residual SD}}$$