This: 2-sample time: problems

next time: correlation

read: LN pp. L-214 → L-244

AMS7 24 May 17

1:15-(1)

JJ extra office hour today 2:15-Jack's Lounge

no class Mon (holiday)*

take-home final goes out last day of classes, due 1 week later (I will give extra office hours all that week)

hw#3 due @ canvas by 11:59 pm Fri 26 May 2017

* but discussion sections will take place the-Fri next week; Mon people need to go to a the-Fri disc. sec next week

today: LN p. L-188 →

paired comparisons formulas: R-(23)+(24)

$\hat{SE}(\bar{Y}_1) = 0.2685$

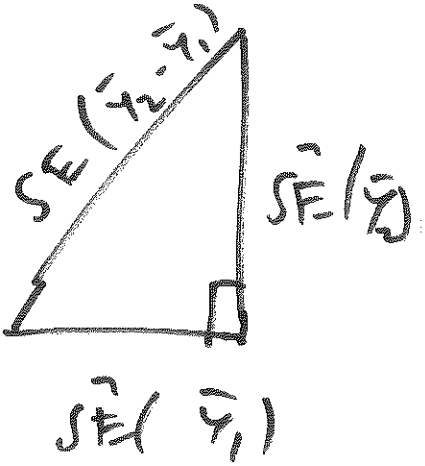
$\hat{SE}(\bar{Y}_2) = 0.2419$

Q: $\hat{SE}(\bar{Y}_2 - \bar{Y}_1) = ?$

math fact: uncertainty in a sum or difference between 2 indep. sample means

combines like the edges of a right triangle:

Pythagorus



$$SE(\bar{Y}_2 - \bar{Y}_1) = \sqrt{[SE(\bar{Y}_1)]^2 + (SE(\bar{Y}_2))^2}$$

$$= \sqrt{\left(\frac{s_1}{\sqrt{n_1}}\right)^2 + \left(\frac{s_2}{\sqrt{n_2}}\right)^2}$$

(so)

$$SE(\bar{Y}_2 - \bar{Y}_1) = \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

P-(26) formula (11)