HW 8 45 72 58 31 60 34 74 285 320 295 265 296 267 321. $\bar{x} = 50.1x$ $\bar{y} = 287.6x$ $(S_x)=(8.497)$ $S_y=25.867$ ZY=666509 ZXY=118652 ZX = 22495 SXX = 2394.875 SXY = 3314.375 SXY=4683.8)5 bi = 1.384. b= 218.25 Sxx = \(\frac{1}{2}\frac{1}{2} - \frac{1}{2}\frac{1}{2} = \frac{1}{2} \frac{1}{2} = \frac{1}{2} = \frac{1}{2} \frac{1}{2} = \frac{1}{2}

\$ Syy = (n-1) Sy = 2394, 455 * Sxy = ZXY-nxy = (18652-8*50.125* 287.625 0 = 3314.375 $0 = \frac{5xy}{5xx} = \frac{3314.375}{2394.875} = 1.384$

 $S_{X} = \frac{\sum (Xi - \overline{X})^{2}}{N - 1} = \frac{S_{XX}}{N - 1}$

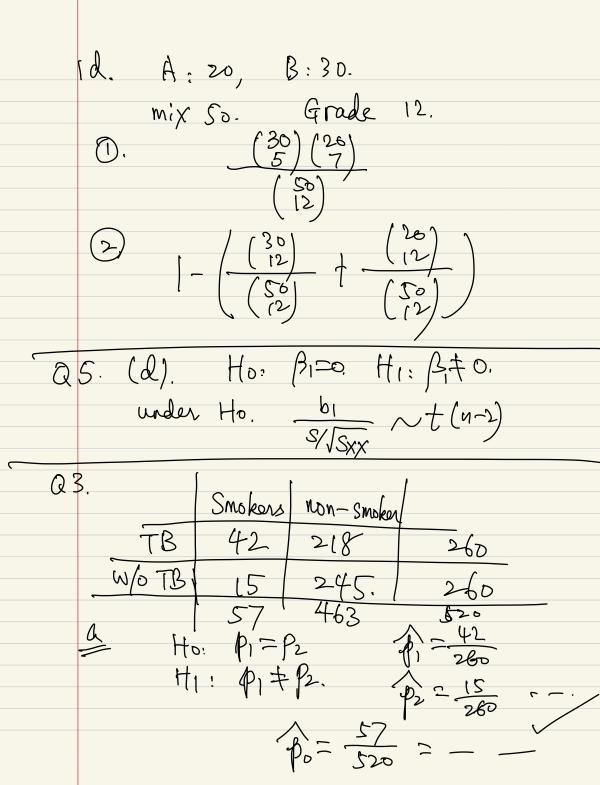
* Sxx = (n-1). Sx = 7 x 18.495

4) Ho: B=0 H1: B+0 under Ho: b1 \tag{20.05.} 5/\sum_{Sxx} (4) Ho: (3,=0 tobs = $\frac{1.384}{4.016/52394.875}$ = $16.86 \in \mathbb{C}$. = $t_{0.015}$ Reject Ho. = $\frac{11}{2.447}$ conclud $\beta_1 \neq 0$. $\frac{11}{2.447}$ 96.78 S R2=1-SSE=1--= (-0.02 \$ 95% for the mean when x265

About ronnding.

De what's the necessary

sample size? n > 71.2 n=72. 2) what's the confidence intervals (71.678, 80.123) (71.7, 80.1) (77.6, 80.2)Sample final: la Poisson 2=2/100 feet. P(<3 flaws on a 200 foot screen $= P(X=0, 1, 2 \text{ when } \lambda = 4)$ $= e^{-4(\frac{40}{0!} + \frac{41}{1!} + \frac{42}{2!})}$ $= \frac{\lambda = 4}{\lambda = 4}$



b P(TB| Smoker) can't be estimated using this Lata set. De couse we don't have a trandom sample of smokers! Q1. Q Ho: $\sigma_1^2 = \sigma_2^2$ H: $\sigma_1^2 + \sigma_2^2$. under Ho: $\frac{S_1^2}{S_2^2}$ of (24, 24).

b Cannot rej Ho

we can assume $\sigma_1^2 = \sigma_2^2$. Ho: MI=M2 H1: MI>M2 under Ho. X-Y Sp \\(\frac{\frac{1}{25}}{25} + \frac{1}{25}}

Sample final Q4. a paired data

2 nel 3 rd 10% nothing 84% Grand and 1310 nothing 30 120 (00 fit a good 200 + 1/00 100 + 400 100 \$10.5 C={ X2 > 7.815} Yobs EC => Rej Ha

Ex: claim: driven > 20,000 km/yen n=100 would you agree with the clan $\nabla = 23,800, S=3.900?$ Ho. M=20,000 H, M>20,000 under Ho, X-20,000 NZ. S/100 X-20,000 NZ. 2-20,000 NZ. 390 Conclusion. $\frac{2}{3500-20000}$ $\frac{3500}{390} = 8.97$ p-value = P(278-97) XD reject Ho. agree to H.

wreday 12/16. 9:30-(0:30p