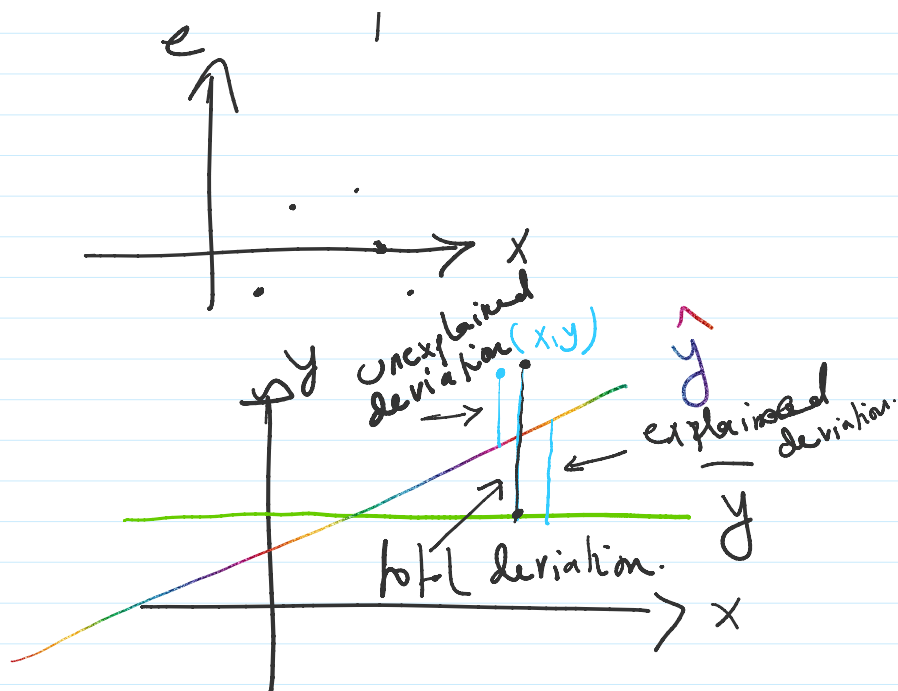


$\lambda = >$

g.

R.



Unexplained Variation: $\sum (y - \hat{y})^2 \leftarrow \sum e^2$

explained Variation: $\sum (\hat{y} - \bar{y})^2$

total variation: $\sum (y - \bar{y})^2$

$$\checkmark = 14.4$$

$$\checkmark = 78.4$$

$$\checkmark = 92.8$$

$$i \quad R^2 = \frac{\text{explained Variation}}{\text{total Variation.}}$$

$$= \frac{78.4}{92.8}$$

$$= 0.845$$

$$= 84.5\%$$

$$j. SSE = 14.4$$

$$k. s = \sqrt{\frac{SSE}{n-2}}$$

$$= \sqrt{\frac{14.4}{3}} \approx 2.19$$

$$k. \hat{y} = b_1 + b_2 x$$

$$\hat{y} = \beta_1 + \beta_2 x$$

$$H_0: \beta_2 = 0$$

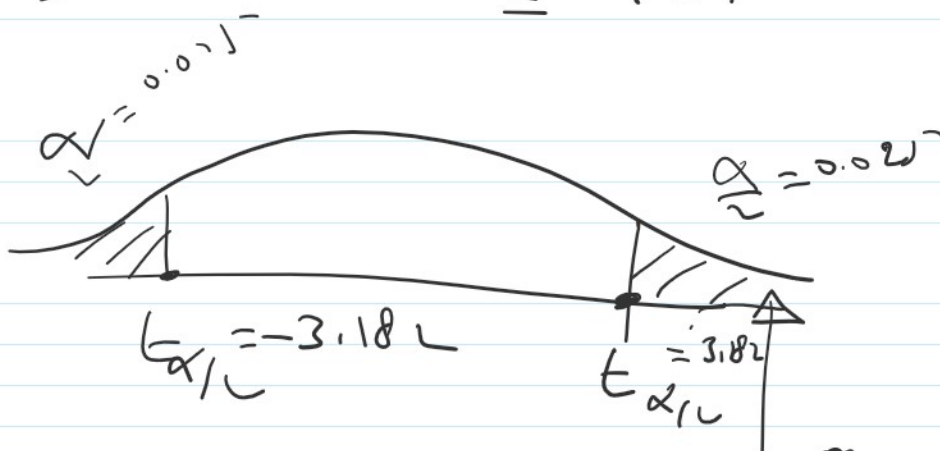
$$H_A: \beta_2 \neq 0$$

$$t^* = \frac{b_2 - \beta_2}{\frac{s}{\sqrt{\sum (x - \bar{x})^2}}} \approx \frac{2.8 - 0}{\frac{2.19}{\sqrt{10}}}$$

$$d.f. = n - 2$$

$$= 3$$

$$\approx 4.04$$



$\alpha/\cup$

$t_{\alpha/\cup} \left| t^{\alpha} \right.$