

$$m_i = \hat{\beta}_1 + \hat{\beta}_2 h_i + \hat{\varepsilon}_i$$

$$m_i = 30 - 0,6 h_i + \hat{\varepsilon}_i$$

(1,6) (0,07)

$$H_0: \beta_i = 0$$

$$H_a: \beta_i \neq 0$$

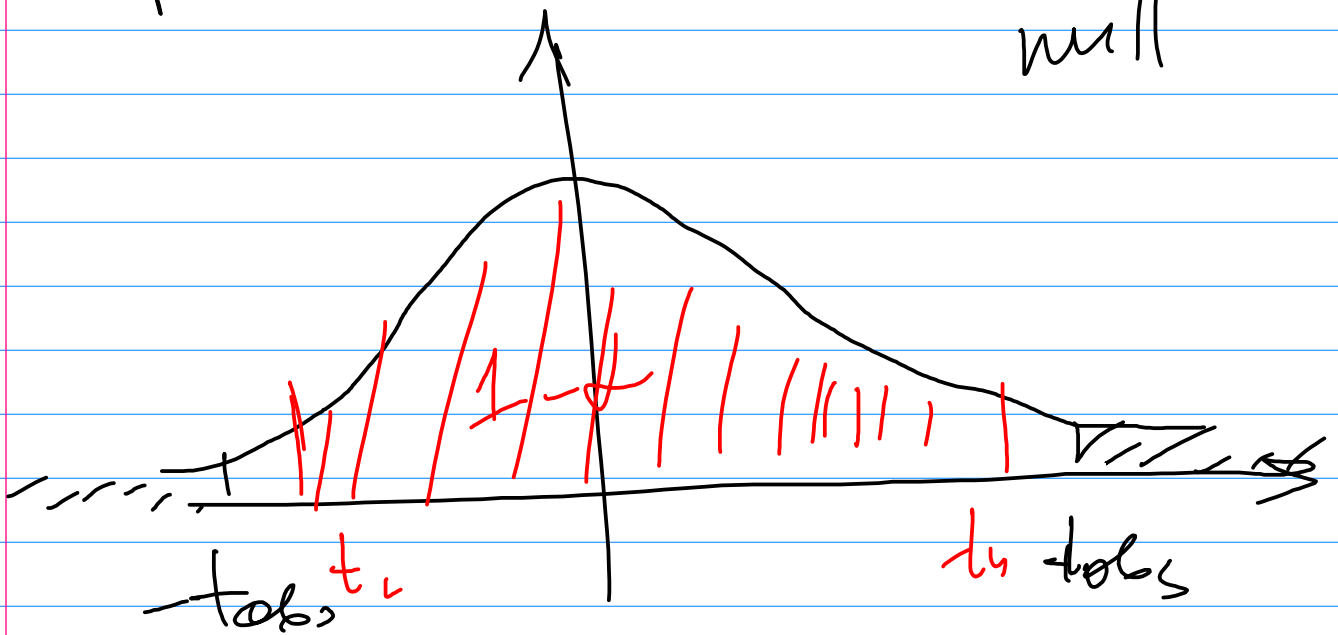
$$t_{obs} = \frac{\hat{\beta}_i - 0}{se(\hat{\beta}_i)} \sim t_{n-k}$$

α

$$|t_{obs}| > t_{1-\alpha/2, n-k}, H_0 \text{ rejected}$$

$$p\text{-value} = 2 \cdot P(|T| > |t_{obs}|)$$

$p\text{-value} < \alpha \Rightarrow \text{reject null}$



$$\beta_1 : (27, 33)$$

$$H_0 : \beta_1 = 0$$

$$H_0 : \beta_1 = 30$$

$$P(\hat{\beta} + t_L \cdot s(\hat{\beta}) \leq \beta \leq \hat{\beta} + t_U \cdot s(\hat{\beta})) = 1 - \alpha$$

$$P(t_L \leq t_{obs} \leq t_U) = 1 - \alpha$$