$$(\alpha)$$
.

$$\frac{\partial RSS}{\partial b_0} = 0$$

$$\frac{\partial RSS}{\partial b_0} = 0$$

$$\frac{\partial RSS}{\partial b_1} = 0$$

$$\int \sum_{i=1}^{b} (\chi_i - b_0 - b_i, y_i) = 0$$

observe 
$$\frac{1}{2} x_1 = \frac{1}{2} x_1 = \frac{1}{2$$

$$\frac{1}{N}\sum_{i=1}^{N}\chi_{i}=\bar{\chi}\sum_{i=1}^{N}\chi_{i}=n\bar{\chi}$$

$$\sum x_i y_i - n \overline{x} \overline{y} + n \overline{y}^2 b_i - b_i \sum y_i^2 \ge 0.$$

$$b_i = \sum_{j=1}^{n} x_i y_i - n \overline{x} \overline{y}$$

$$\sum_{j=1}^{n} y_j^2 - n \overline{y}^2$$

$$b_n = \overline{x} - b_i \overline{y}$$

$$b_1 = \sum_{j=1}^{n} x_i y_j - n \overline{x} \overline{y}$$

In yi - Ny

، (ما)

$$\begin{array}{rcl}
\mathcal{F}_{I} &=& \frac{\sum_{i} \left( \dot{y}_{i} - \dot{y}_{i} \right)^{2}}{\sum_{i} \left( \dot{y}_{i} - \dot{y}_{i} \right)^{2}} \\
&=& \frac{\sum_{i} \left( \dot{\beta}_{i} \dot{\chi}_{i} - \dot{\beta}_{i} \dot{\chi}_{i} \right)^{2}}{\sum_{i} \left( \dot{y}_{i} - \dot{y}_{i} \right)^{2}} \\
&=& \frac{\dot{\beta}_{i}}{\sum_{i} \left( \dot{y}_$$

$$R_{I}^{2} = b_{1}^{2} \cdot \frac{5yy}{5xx}.$$
Since  $b_{1}^{2} = \frac{5xy}{5yy}.$ 

$$= \frac{5^2 \times y}{5 \times 5 \times 9} = 5 \times 9$$

STALE TXY= TXY

thus Ri and RI are same.