$$\hat{J}_{i} = \hat{\beta}_{0} + \hat{\beta}_{1} \hat{X}_{1} \quad \text{(20)}$$

$$\hat{u}_{i} = \hat{y}_{i} - \hat{y}_{i} = \hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i} \quad \text{(21)}$$

$$\hat{u}_{i} = \hat{y}_{i} - \hat{y}_{i} = \hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i} \quad \text{(21)}$$

$$= \sum_{i=1}^{3} (\hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i})^{2} = \sum_{i=1}^{3} (\hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i}) = \sum_{i=1}^{3} \left[ \hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i} \right] = 0$$

$$= \sum_{i=1}^{3} \left[ \hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i} \right] = 0$$

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$$= \sum_{i=1}^{3} \left[ \hat{y}_{i} - \hat{\beta}_{0} - \hat{\beta}_{i} \hat{X}_{i} \right] = 0$$
(If)