$$\overline{\chi'y'} = \frac{1}{N} \sum_{i=1}^{N} (\pi_i - \overline{\chi})(y_i - \overline{y}) = \overline{\chi}\overline{y} - \overline{\chi}\overline{y}$$

$$\left| \begin{array}{ccc} \alpha & \stackrel{\textstyle \chi_1^2}{\stackrel{\textstyle \chi_2^2}{\stackrel{\textstyle \chi_1^2}{\stackrel{\textstyle \chi_2^2}{\stackrel{\textstyle \chi_1^2}{\stackrel{\textstyle \chi_2^2}{\stackrel{\textstyle \chi_1^2}{\stackrel{\textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}{\stackrel{\textstyle \chi_1^2}{\stackrel{\textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}{\stackrel{\textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}}{\stackrel \textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}}{\stackrel \textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}}{\stackrel \textstyle \chi_1^2}{\stackrel \textstyle \chi_1^2}{\stackrel$$

$$\sharp f_{n} \qquad \overline{\mathcal{J}} = \beta_{0} + \beta_{1} \times \lambda_{0}$$

$$\hat{\beta}_0 = \overline{y} - \hat{\beta}_1 \overline{\chi}$$