Para una Imea recta,
$$\chi^2$$
 tiene la signiente forma
$$\chi^2 = \sum_{j=1}^{N} \left(y_1 - a_0 - a_1 \chi_1 \right)^2$$

$$= \frac{1}{\sqrt{1}} = \frac{1}{\sqrt{1}} = 0$$
Minimizando
$$\frac{3\chi^2}{3\alpha} = -2 \sum_{j=1}^{N} \frac{y_1 - a_0 - a_1 \chi_1}{\sqrt{1}} = 0$$

$$\frac{3\chi^2}{3\alpha} = -2 \sum_{j=1}^{N} \frac{\chi_1 (y_1 - a_0 - a_1 \chi_1)}{\sqrt{1}} = 0$$

$$\frac{2\chi_1^2}{\sqrt{1}} = \left(\sum_{j=1}^{N} \frac{1}{\sqrt{1}} \right) a_0 + \left(\sum_{j=1}^{N} \frac{\chi_1^2}{\sqrt{1}} \right) a_0$$

$$= \sum_{j=1}^{N} \frac{\chi_1 y_1}{\sqrt{1}} = \left(\sum_{j=1}^{N} \frac{\chi_1}{\sqrt{1}} \right) a_0 + \left(\sum_{j=1}^{N} \frac{\chi_1^2}{\sqrt{1}} \right) a_0$$

$$= \sum_{j=1}^{N} \frac{\chi_1^2}{\sqrt{1}} = \left(\sum_{j=1}^{N} \frac{\chi_1^2}{\sqrt{1}} \right) a_0$$

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Obteniendo el inverso

$$\begin{bmatrix} Q_0 \\ Q_1 \end{bmatrix} = \frac{1}{\Delta} \begin{bmatrix} \frac{\lambda_1^2}{G_1^2} - \frac{\lambda_1^2}{G_1^2} \\ -\frac{\lambda_1^2}{G_1^2} \end{bmatrix} \begin{bmatrix} \frac{\lambda_1^2}{G_1^2} \\ \frac{\lambda_1^2}{G_1^2} \end{bmatrix} \begin{bmatrix} \frac{\lambda_1^2}{G_1^2} \\ \frac{\lambda_1^2}{G_1^2} \end{bmatrix}$$

$$\Delta = \left(\sum_{i=1}^{\infty} \frac{1}{Q_{i}^{2}} \right) \left(\sum_{i=1}^{\infty} \frac{\chi_{i}^{2}}{Q_{i}^{2}} \right) - \left(\sum_{i=1}^{\infty} \frac{\chi_{i}}{Q_{i}^{2}} \right)^{2}$$

Tomando Vi = V, EnContramos las Soluciones para minimos cuadrados

$$\Delta = N \sum X^2 - \left(\sum X\right)^2$$