I used the classic method which the minimizers
$$\beta_0$$
 and β_1 of the function $F(\star_0, \star_0) = \frac{\kappa}{2\pi} (\gamma_0 - (\star_0 + \star_1 \chi_0))^2$ in can be determined by computing the partical derivatives of F and setting them equal to O .

$$N=3 \qquad (0,6) \qquad (1,0) \qquad (0,0)$$

$$\overline{X} = \frac{0+1+0}{3} = \frac{1}{3}$$

$$\overline{Y} = \frac{b+0+0}{3} = 2$$

$$= \frac{-2}{\frac{2}{3}} = \frac{-3}{3}$$
b) The key is the Bo and B, will be always positive.

Since we use partical derivatives of F and setting them equal to 0. to get the B and B, So we can assume

 $\int (\beta_0, \beta_1) = \frac{2}{n=1} |\beta_0 + \beta_1 \times n - \gamma_n|$ $\begin{cases}
\frac{\partial (\beta_0, \beta_1)}{\partial \beta_0} = \frac{2}{n=1} |1 + \beta_1 \times n - \gamma_n|$ $\frac{\partial (\beta_0, \beta_1)}{\partial \beta_1} = \frac{2}{n=1} |\beta_0 + \chi_n - \gamma_n|$

So by the system equation we can noticed that whatever Xn or Yn is, the value of fo and for its always positive and we won't have regative intercept which is not make sense.