Desarla Coordenada com Otimitaja de Comprimento do Passo

 $F(\alpha) = F(3_1, \alpha_2, \ldots, \alpha_n)$ Temos um ponto imaal $\chi^{(0)} = (3_1, \alpha_1, \alpha_2, \ldots, \alpha_n)$

Fixamos valores das vaniavers x_1, x_2, \dots, x_n Entar, temos uma FO da uma vanad, $F(x_1, x_2^{(0)}, x_3^{(0)}, \dots, x_n^{(0)})$.

Podemos resolver uma equajoro;

$$\frac{dF(\alpha_{i,j},\gamma_{i}^{(0)},\gamma_{3}^{(0)},\ldots,\gamma_{n}^{(0)})}{d\gamma_{i,j}}=0$$

Estques us pouto $(\chi_1^{(f)}, \chi_2^{(o)}, \chi_3^{(o)}, \dots, \chi_n^{(o)})$

Fly, $\chi_{i}^{(p)}$ $\chi_{3}^{(o)}$, $\chi_{i}^{(o)}$

Podemos resolver uma equajero;

 $\frac{d^{\frac{1}{2}}\left(\alpha_{1}, \alpha_{1}, \alpha_{1}, \alpha_{3}, \ldots, \alpha_{n}^{(0)}\right)}{d\alpha_{1}} = 0$

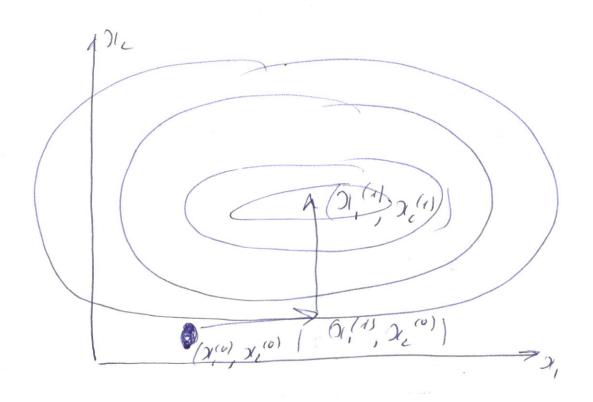
Estamos us ponto $(\alpha_1^{(0)}, \alpha_2^{(0)}, \alpha_3^{(0)}, \ldots, \alpha_4^{(0)})$

No singl do primero ciclo temos (21, (1), 2, (1), 23, ..., 2, (1)) Para resolver o problema com Fo sepanado ou aditud, é subraiente faren um archo de consideração das variaves.

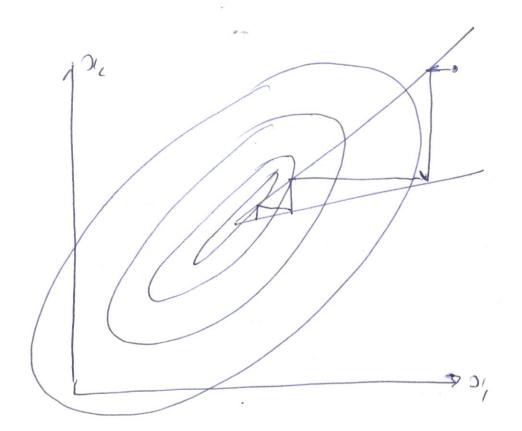
F(a) = Z fi (ai)

Por exemplo:

F(7, 2)= a, x, + 6, x, 2 + a, x2 + 6, x2



F(01,01)= a, 01,+a, 012+6, 01,+ 6,2,2+0,0,2



$$F(\alpha_1, \alpha_3) = \frac{1}{10^2} \left[(65 - \alpha_2 - \alpha_3)^2 \cdot 0.1 + (55 - \alpha_2 - \alpha_3)^2 \cdot 0.2 + (30 - \alpha_2)^2 \cdot 0.3 + \alpha_2^2 \cdot 0.4 + (5 - \alpha_3)^2 \cdot 0.5 + \alpha_3^2 \cdot 0.4 + (5 - \alpha_3)^2 \cdot 0.5 + \alpha_3^2 \cdot 0.4 + (5 - \alpha_3)^2 \cdot 0.5 + \alpha_3^2 \cdot 0.4 + (5 - \alpha_3)^2 \cdot 0.5 + \alpha_3^2 \cdot 0.4 + (5 - \alpha_3)^2 \cdot 0.5 + \alpha_3^2 \cdot 0.4 + (5 - \alpha_3)^2 \cdot 0.4$$

$$\frac{\chi_{2}(0) = \chi_{3}(0) = 0}{dF(\chi_{2}, \chi_{3}(0))} = \frac{1}{10^{2}} \left[-\frac{2(6\Gamma - \chi_{2} - \chi_{3}(0)) \cdot q_{1} - 2(5\Gamma - \chi_{2} - \chi_{3}(0))}{\theta \chi_{2}} \cdot q_{3} - 2\chi_{2}(0, q_{3}) \cdot q_{3} - 2\chi_{2}(0, q_{3}) \right] = 0$$

$$\frac{2}{2} = 26, \Gamma - q_{3} \chi_{2}(0)$$

$$\frac{2}{\chi_{2}(0)} = 26, \Gamma$$

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$$\frac{\int F(x_3, x_2^{(1)})}{dx_2} = \frac{1}{110^2} \left[-2/67 - \chi_2^{(1)} - \chi_3^{(1)} - \chi_2^{(1)} - \chi_2^{(1)}$$