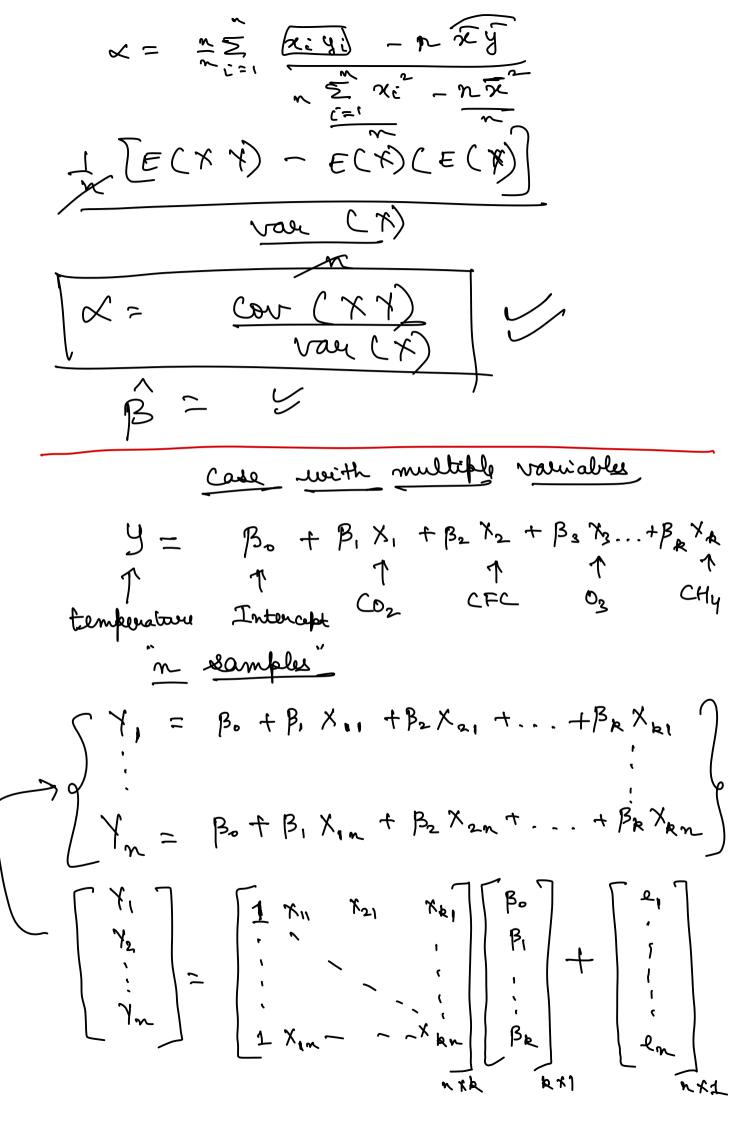
Lineau Regression Finding parameters Temperature (X) each (x, y) = 40- 9i = y: - (xxi+B) $\mathcal{L}_{q} = \sum_{i=1}^{\infty} \mathcal{L}_{q_i} = \sum_{i=1}^{\infty} \left(y_i - \mathcal{L}_{x_i} - \beta \right)$ $J = \sum_{i=1}^{n} c_{i} c_{i} = \sum_{i=1}^{n} (y_{i} - \lambda x_{i} - \beta)^{2}$ alignin J argmin J



$$\frac{\partial \vec{x}^{T} \vec{x}^{T}}{\partial \beta} = 0$$

$$\Rightarrow -2x^{T}y + 2x^{T}x\beta = 0$$

$$\Rightarrow x^{T}y = x^{T}x\beta$$

$$\Rightarrow (x^{T}x)^{T}x^{T}y = (x^{T}x^{T})(x^{T}x)\beta$$

$$\Rightarrow \beta = (x^{T}x^{T})x^{T}y$$