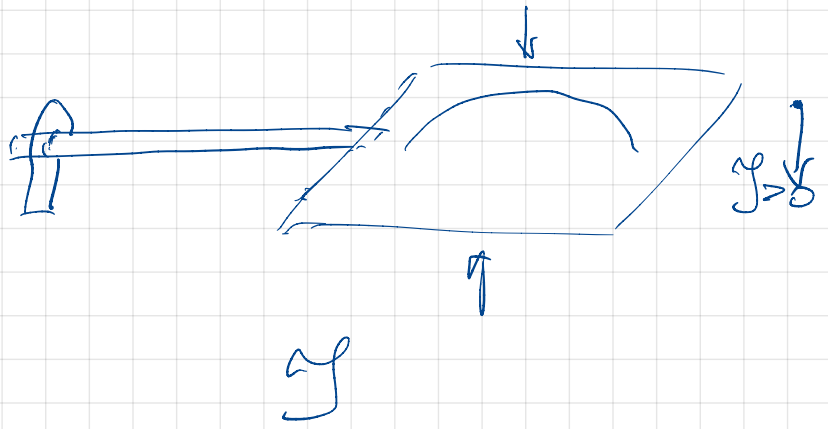


$$\underline{\underline{y}} \quad \text{BT/m}^2$$



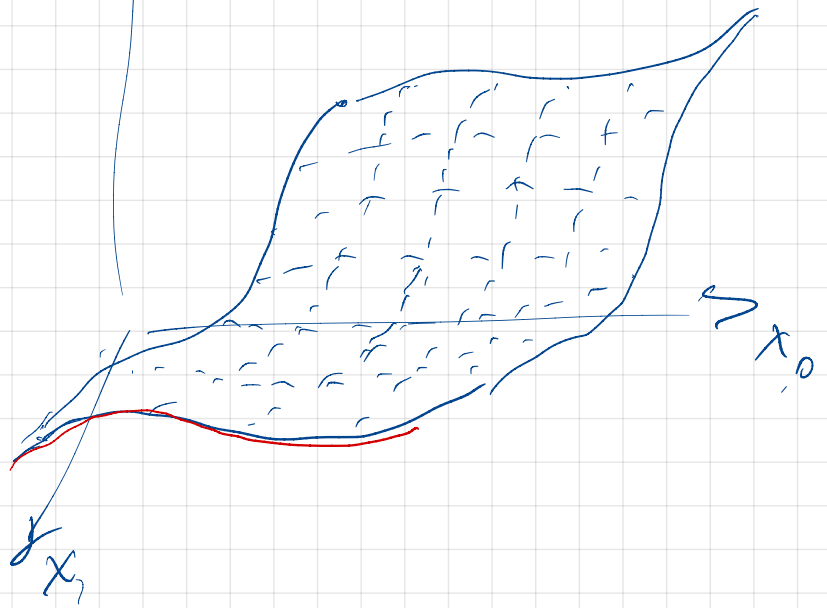
$$x: \quad T_b, S_b, h_b \\ T_{ann}, h_a, b_a$$

$$x \in \mathbb{R}^6$$

$$x' \in \mathbb{R}^7 \times \mathbb{R}^1 \\ \theta^T \in \mathbb{R}^7 \times \mathbb{R}^1$$

$$y = \theta^T \tilde{x}$$

$$\tilde{x} = p^{(n)}(x) \\ \text{pol.} \\ \text{cos} \\ \text{exp} \\ \ln$$



$$x_0, x_1, x_2 \quad x \in \mathbb{R}^3$$

$$\tilde{x} = p^{(2)}(x) = x_0^2; x_1^2; x_2^2; x_0 x_1; x_0 x_2; x_1 x_2; 1; \\ x_0, x_1, x_2$$

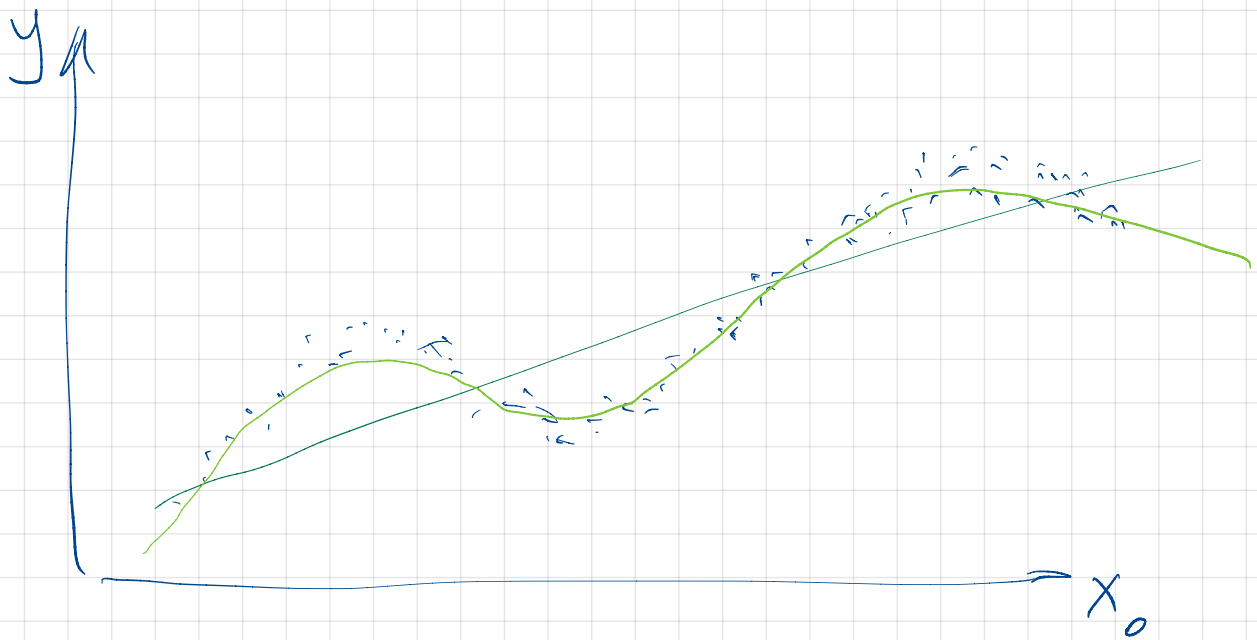
①

$$\tilde{x} = p^{(3)}(x) = 1, x_0, x_1, x_2, x_0 x_1, x_0 x_2, x_1 x_2, x_0^2, x_1^2, x_2^2, x_0^3, x_1^3, x_2^3, \\ x_0 x_1^2, x_0 x_2^2, x_1 x_2^2, x_0^2 x_1, x_0^2 x_2, x_1^2 x_2$$

$$\underline{\underline{y}} = \underline{\underline{\theta}}^T \tilde{x}$$

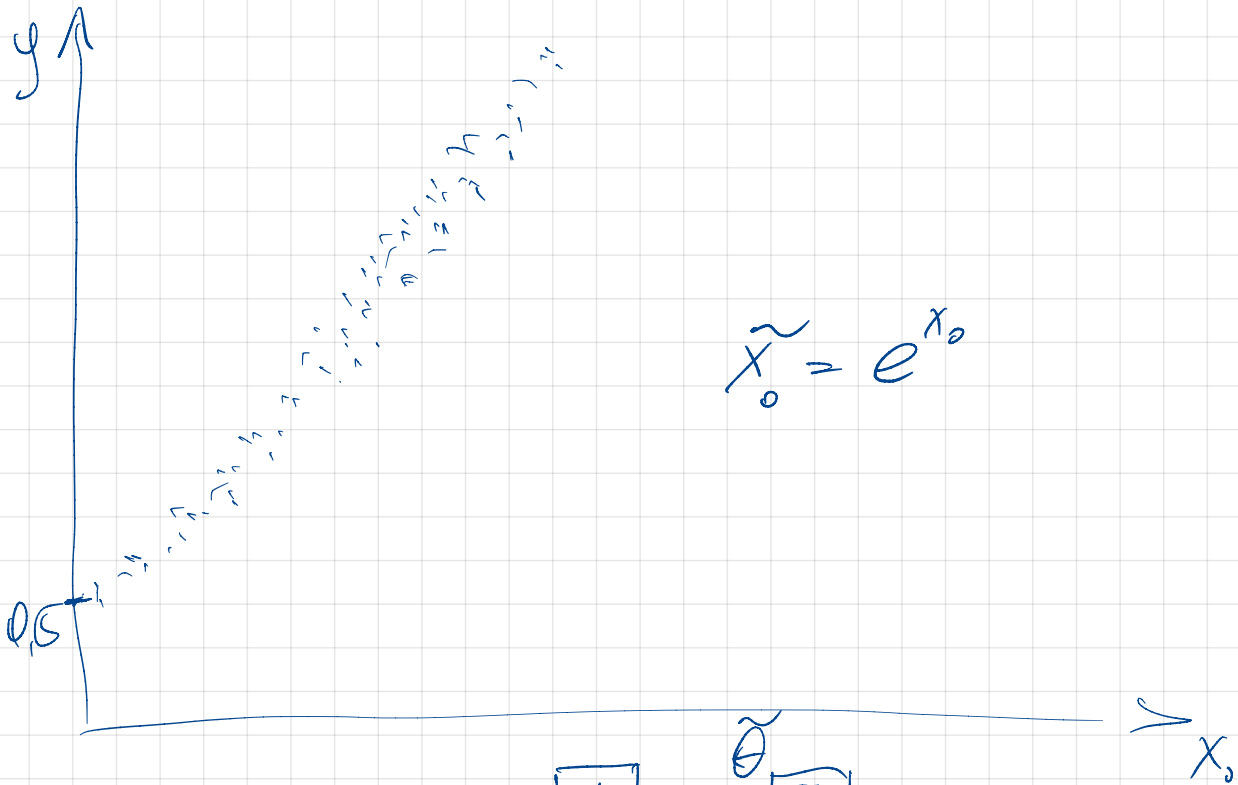
$$\tilde{x} \in \mathbb{R}^{20} \\ \underline{\underline{\theta}}^T \in \mathbb{R}^{20}$$

$$x_0 x_1^2, x_0 x_2^2, x_1 x_2^2, x_0^2 x_1, x_0^2 x_2, x_1^2 x_2$$



$$x_0^2, x_0^6, \dots, x_0, 1$$

$$y = \theta^T \tilde{x}$$



$$\tilde{x}_0 = e^{x_0}$$

$$y = \theta^T \tilde{x}_0$$

$$\begin{bmatrix} 1 \\ \tilde{x}_0 \end{bmatrix}$$

$$\begin{bmatrix} \tilde{\theta}_0 \\ \tilde{\theta} \end{bmatrix}$$

Можно ли?

$$\underline{y = p^{(6)}(x)}$$

$$\underline{y = \Theta^T \tilde{x}^{(6)}}$$

$$\underline{h \sim \xi^{1/3}}$$

$$\tilde{x} = \xi^{4/3}$$

Feature engineering
Порождение признаков.