

$$P(\omega) = \sum_{i=1}^N (x_i - \omega)^2 \rightarrow \min_{\omega \in \mathbb{R}}$$

$$\left(\sum_i (x_i - \omega)^2 \right)' = 0$$

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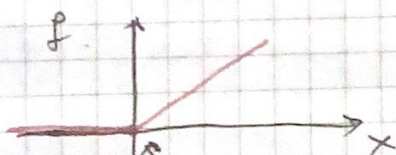
$$\sum_i 2(x_i - \omega) \cdot (-1) = 0$$

$$\sum_{i=1}^n x_i - \sum_{i=1}^n \omega = 0$$

$$\sum_{i=1}^n \omega = \sum_{i=1}^n x$$

$$(0; 1) \\ \frac{0+1}{2} = \frac{1}{2}$$

$$\text{RELU}(x) = \max\{0, x\}$$



$$\partial f = \begin{cases} 0 & , x < 0 \\ 1 & , x > 0 \\ [0, 1] & , x = 0 \end{cases}$$

$$x=0 \rightarrow \begin{matrix} f=0 \\ f=x \end{matrix}$$

определяет
интервал
область

$$\nabla f_1 = 0 \quad \nabla f_2 = 1$$

