Hom work 9. $\int_{-\frac{\pi}{4}} \frac{\partial z}{\partial x} dx = w^{T}x + b = 0$ $\int_{-\frac{\pi}{4}} \frac{\partial z}{\partial x} dx = w^{T}x + bz = 1 \quad T,$ Max: $\frac{1}{|w||}$ (1) $\int_{-\frac{\pi}{4}} \frac{\partial z}{\partial x} dx = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|z|} dz = 0 \quad \text{if } h \neq 1$ Max: $\frac{z}{|$

$$\begin{cases} \frac{\partial f}{\partial x_{i}} = 0 \\ \frac{\partial f}{\partial x_{i}} = 0 \end{cases} \Rightarrow \begin{cases} \alpha_{i} = -\alpha_{i} < 0 \\ \alpha_{i} = 1.2 \\ \alpha_{i} = 0 \end{cases}$$
 不滿般的特许 $\alpha_{i} > 0$

那么最大值只能在边界处取到:

从下尝试 简

$$\begin{cases} 3d_1 = 0, & \frac{\partial f}{\partial a_1} = 0 & \frac{\partial f}{\partial a_2} = 0 \\ 3d_2 = 0, & \frac{\partial f}{\partial a_1} = 0, & \frac{\partial f}{\partial a_2} = 0 \end{cases} \Rightarrow d_1 = 0, d_2 = 1, f = 2.5$$

$$3d_3 = 0, & \frac{\partial f}{\partial a_1} = 0, & \frac{\partial f}{\partial a_2} = 0 \Rightarrow d_1 = 0, d_2 = 1, f = 1.$$

 $ME: 43: d_1=\frac{1}{2}, d_2=0, d_3=2, d_4=0, d_5=\frac{5}{2}$

起栖和的: $W = \sum_{i=1,3,5} \frac{1}{2}$ $b = y_i - w^T x_i$ i = 1,3,5 其的-PP $-x_1 + 2x_2 - z = 0$

次策函級 Sign(-X1+2/2-3)

$$\mathcal{L}_{CE} = -\left[y \log \pi w \cdot x + b \right) + (1-y) \log (1-\pi (w x + b)) \right]$$

益先、全己=WTa+b

$$\frac{\partial \log \sigma(\overline{w_x + b})}{\partial w_j} = \frac{\partial \log \sigma(\overline{s})}{\partial \overline{s}} \cdot \frac{\partial \overline{s}}{\partial w_j} = \frac{\overline{\sigma(s)}}{\overline{\sigma(s)}} \cdot x_j = (1 - \overline{\sigma(s)}) x_j.$$

$$\frac{\partial \log (1 - \overline{\sigma(w_x + b)})}{\partial w_j} = \frac{\partial \log (1 - \overline{\sigma(s)})}{\partial \overline{s}} \cdot \frac{\partial \overline{s}}{\partial w_j} = \frac{\overline{\sigma(s)}}{\overline{\sigma(s)}} \cdot x_j = -\overline{\sigma(s)} x_j.$$

Finy:
$$\frac{\partial L_{CE}(w,b)}{\partial w_{\tilde{j}}} = -y \left[1 - \sigma(w^{T}x + b) \right] x_{\tilde{j}} + (1 - y) \sigma(w^{T}x + b) x_{\tilde{j}}.$$

$$= -y x_{\tilde{j}} + \sigma(w^{T}x + b) x_{\tilde{j}}.$$