$$P(\text{nin}|\text{ predict loss}) = \frac{P(\text{predict loss}|\text{nin}) P(\text{win})}{P(\text{predict loss})} = \frac{[1 - P(\text{predict win})] P(\text{win})}{P(\text{predict loss})} P(\text{foss})} = \frac{[0.892] [1 - P(\text{win})]}{P(\text{predict loss})}$$

$$P(\text{predict loss}) = \frac{[0.892] [1 - P(\text{win})]}{P(\text{predict loss})}$$

fl ex See Doc 40

2) 2) Set MCE =
$$\sum_{i=1}^{N} (\pi_{i} - \alpha_{i})^{2}$$
 as the man squard error

$$= \sum_{i=1}^{N} \pi_{i}^{2} \cdot 20\pi_{i} + \alpha^{2}$$

$$= \sum_{i=1}^{N} 2\pi_{i} + 2\alpha$$

$$= 2 \sum_{i=1}^{N} 2\pi_{i} = 0$$

$$= 2 \sum_{i=$$

2) b.
$$\frac{d}{da} \left(\log p(\pi | a, \sigma^2) \right) = \frac{d}{da} \left(-\frac{1}{2} \log (2\pi\sigma^2) - \frac{1}{2\sigma^2} (\pi - a)^2 \right)$$

$$= -\frac{1}{2\sigma^2} (2)(-1)(\pi - a)$$

$$= \frac{1}{\sigma^2} (\pi - a) = 0$$

$$= 2 \times cat = a = Mean (Same to a)$$