1.
$$h(x_1, x_2) = 0$$
 (b $+w_1x_1+w_2x_2$)
 $\theta = (b_1w_1, w_2) = (4, 5, 6)$
 $(x_1, x_2, y) = (1, 2, 3)$
 $\theta' = 0^9 - d \log \cos = 0^9 + 2d \left[\frac{w_1}{w_2} (y' - h(x_1, x_2)) \right] = 0$
 $\frac{2h}{2h} = \frac{0'(b+w_1x_1+w_2x_2)}{2h} = \frac{0'(b+w_1x_1+w_2x_2)}{2h} = \frac{0'(b+w_1x_1+w_2x_2)}{2g'(b+w_1x_1+w_2x_2)} = \frac{4}{5} + 2d(3-g(4+5\cdot1+6\cdot2)) \left[\frac{0'(4+5\cdot1+6\cdot2)}{2g'(4+5\cdot1+6\cdot2)}\right] = \frac{4}{5} + \frac{1}{5} + \frac{1$

 $= O((-\sigma))$

$$\frac{d^{3}\sigma}{dx^{2}} = \frac{d\sigma(1-\sigma)}{dx} = \frac{d\sigma}{dx} \left(\frac{1}{\sigma(1-\sigma)} \right) = \frac{d\sigma}{dx} \left(\frac{1}{\sigma(1-\sigma)} \right) + \sigma \frac{d(1-\sigma)}{dx}$$

$$= \sigma(1-\sigma)^{2} + \sigma(-\sigma(1-\sigma))$$

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

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

$$= (1-2\sigma)\sigma(1-\sigma)$$

$$= (1-2\sigma)\sigma(1-\sigma) + (1-2\sigma)\sigma(1-\sigma)$$

$$= (1-2\sigma)\sigma(1-\sigma) + (1-2\sigma)\sigma(1-\sigma)$$

$$= -2\sigma(1-\sigma)\sigma(1-\sigma) + (1-2\sigma)\sigma(1-\sigma)$$

$$= -2\sigma(1-\sigma)\sigma(1-\sigma) + (1-2\sigma)\sigma(1-\sigma)$$

$$= (1+2\sigma)^{2} - 2\sigma(1-\sigma) + (1-2\sigma)\sigma(1-\sigma)$$

$$= (1+2\sigma)^{2} - 2\sigma(1-\sigma) + (1-2\sigma)\sigma(1-\sigma)$$

= tanh(=)+(1-0(X) =)20(X)=tanh(2)+10(X)===(tanh(=)+1)+1