12)
$$d \log t$$
 $d \log t$ $d \log t$

$$\frac{1}{2} \frac{d \log x}{d y_{2}} = \frac{d \log x}{d p_{1}} \times \frac{d p_{1}}{d y_{2}} \times \frac{d \log x}{d y_{$$

$$\frac{d|\widehat{p}|}{dh_{2}i} = h_{2}w_{4} + h_{1}w_{3} + b_{3}$$

$$\frac{d h_{21}}{d g_{2}} = \frac{d}{d x} \cdot \ln \left(1 + e^{2 y}\right) \cdot \frac{f(x) \cdot \ln \left(1 + e^{2 y}\right)}{g(x)} \cdot \frac{g(x)}{1 + e^{2 y}}$$

$$\frac{1}{f(x)} = \frac{1}{1 + e^{2 y}} \cdot \frac{1}{1 + e^{2 y}}$$

$$\frac{2^{2}}{1 + e^{2 y}}$$

$$\frac{dz_2}{db_2} = \frac{d}{db_2} W_2 h_1 + b_2 = 1$$

divis
$$= \sum -2 \left(y_1 - \hat{p_1} \right) \times 1 \times w_4 \times \frac{\epsilon}{1 + \epsilon^2} \times 1$$