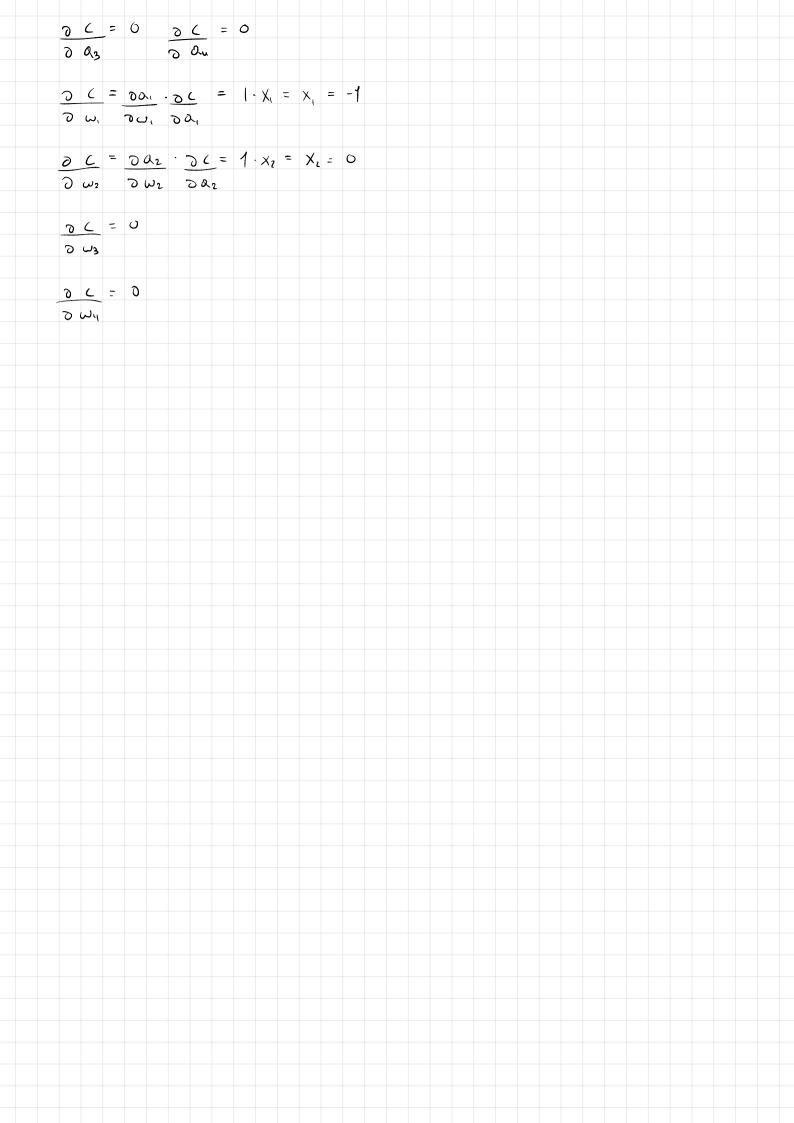


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$$(y_n, \hat{y}_n) = \frac{1}{2}(y_n - \hat{y}_n)^2$$

Forward pass

$$0_1 = 1$$
 $C_1 = 2$ $C_2 = 0$ $C_2 = 0$ $C_3 = 1$ $C_4 = -4$ $C_4 = -4$

Backword pass

$$\frac{\partial \zeta}{\partial \hat{y}} = \frac{\partial \left(\frac{1}{2} (y - \hat{y}) \right)^2 - (y - \hat{y}) = 1 \qquad \hat{y}' = 1$$

$$\frac{\partial}{\partial C} = \frac{\partial \hat{y}}{\partial C} \frac{\partial C}{\partial C} = \left(\frac{\partial}{\partial C} \max(C_{1}, C_{2}) = 1 \right) \cdot 1 = 1$$

$$\frac{\partial}{\partial} C = \frac{\partial \hat{y}}{\partial c} \frac{\partial C}{\partial c} = \left(\frac{\partial \max(c_1, c_2)}{\partial c_2} = 0 \right) \cdot 1 = 0$$

$$\frac{\partial C}{\partial b_1} = \frac{\partial C_1 \partial C}{\partial b_1} = \frac{\partial (a_1 + a_2 + b_1)}{\partial b_1} \cdot 1 = 1$$

$$\frac{\partial}{\partial b_2} \left(\frac{\partial}{\partial b_1} \frac{\partial}{\partial c_2} \right) = 0$$

$$\frac{\partial}{\partial a} C = \frac{\partial C}{\partial a} \cdot \frac{\partial C}{\partial c} = 1$$

$$\frac{\partial}{\partial \omega} = \frac{\partial}{\partial \omega} \cdot \frac{\partial}{\partial \omega} = \frac{1 \cdot \chi_1}{\partial \omega} = \frac{1}{1}$$

$$\frac{\partial C}{\partial \omega_2} = \frac{\partial \alpha_2}{\partial \omega_2} \cdot \frac{\partial C}{\partial \alpha_2} = \frac{1 \cdot x_1}{\partial \alpha_2} = \frac{x_1}{\partial \alpha_2} = 0$$

