$$\omega_{1}^{tr} = \omega_{1}^{t} - \mu \cdot \frac{\partial L_{MSE}}{\partial \omega_{1}}$$

$$= \omega_{1}^{t} - \mu \cdot \frac{\partial \tilde{N} \tilde{\Sigma}_{1}^{t} (\tilde{g}_{1} - g_{1})^{2}}{\partial \omega_{1}}$$

$$\omega_{1}^{tr} = \omega_{1}^{t} - \frac{\mu}{N} \sum_{i=1}^{N} \left( \frac{\partial (\tilde{g}_{i} - g_{i})^{2}}{\partial \omega_{1}} \right)$$

$$\omega_{1}^{tr} = \omega_{1}^{t} - \frac{2\mu}{N} \sum_{i=1}^{N} \left( (\tilde{g}_{i} - g_{i}) \cdot \frac{\partial ((\tilde{g}_{1} - g_{1})^{2})}{\partial \omega_{1}} \right)$$

$$\partial \omega_{1}$$

$$\omega_1^{m} = \omega_1^{\dagger} - \frac{2 \cdot m}{N} \cdot \sum_{i=1}^{N} \left( (\hat{y}_i - y_i) \cdot log sig(\omega_1 x_i + \omega_0) \cdot (1 - log sig(-)) \cdot x_i \right)$$

$$\omega_0^{tn}$$
 -  $\omega_0^t$  -  $\frac{2m}{N} \cdot \sum_{i=1}^{N} ((\hat{y}_i - y_i) \cdot logsig(\omega_1 x_i + \omega_0) \cdot (1 - logsig(\omega_1 x_i + \omega_0)))$