$$L = \sum_i (X_i W - y_i)^2, \quad i \in \{1, 2, 3\}, \quad X_i \in \mathbb{R}^{1\times 5}, \quad W \in \mathbb{R}^{5\times 1}$$

$$\frac{\partial L}{\partial W} = 2 \cdot \sum_i \underbrace{(X_i W - y_i)}_{1\times 1} \cdot \underbrace{X_i^T}_{5\times 1} = 2 \cdot \sum_{i=1}^{3} \left[(X_i W - y_i) \cdot X_i^T \right], \quad i \in \{1, 2, 3\}.$$

$$W^{k+1} = W^k - \mu \cdot \frac{\partial L}{\partial W}(W^k)$$

$$W^{k+1} = W^k - \mu \cdot 2 \cdot \sum_{i=1}^{3} \left[(X_i W - y_i) \cdot X_i^T \right], \quad i \in \{1, 2, 3\}.$$