

Programming Task Q1 Part c)

Gradient descent

~~W ← W - 2~~

$$W \leftarrow W - 2 \begin{bmatrix} 6x_1 + 4x_2 - 5 \\ 4x_1 + 4x_2 \end{bmatrix}$$

$$\begin{bmatrix} \partial f_{x_1} \\ \partial f_{x_2} \end{bmatrix} = \begin{bmatrix} 6x_1 + 4x_2 - 5 \\ 4x_1 + 4x_2 \end{bmatrix}$$