## 人工智慧導論 HW2

許博翔

May 22, 2024

Problem 1. 
$$\max(1-y\mathbf{w}^T\mathbf{x})^2 = \begin{cases} (1-\mathbf{w}^T\mathbf{x})^2 = 1 - 2y\mathbf{w}^T\mathbf{x} + y^2(\mathbf{w}^T\mathbf{x})^2 = 1 - 2y\mathbf{w}^T\mathbf{x} + (\mathbf{w}^T\mathbf{x})^2, & \text{if } y \in \mathbb{R} \\ 0, & \text{otherwise} \end{cases}$$