Machine Learning

HW 3 - Gradient-Based Learning Spring 2025

- 1. For the function $J = (x_1w_1 5x_2w_2 2)^2$, where $w = [w_1, w_2]$ are our weights to learn:
 - (a) What are the partial gradients, $\frac{\partial J}{\partial w_1}$ and $\frac{\partial J}{\partial w_2}$? Show work to support your answer (6pts).
 - (b) What are the values of the partial gradients, given current values of w = [0, 0], x = [1, 1] (4pts)?