Warm-Up: A Familiar Concept

Prepared by Mark on January 25, 2025

Problem 1:
Let $v = [-5, -2, 0, 1, 4, 1000]$. Find all x that minimize the following metric.

$$\sum_{\forall i} |v_i - x| = |v_1 - x| + |v_2 - x| + ... + |v_6 - x|$$

Problem 2:
Let $v = [-5, -2, 0, 1, 4, 1000, 1001]$. Find all x that minimize the metric in **??**.

Problem 3:
What is this metric usually called?