1. Let $f(x) = 4 - x^2$ be a curve on the interval $[-2, 2]$. For (a) and (b), label **all** points $(x_i,\ f(x_i))$.

    (a) Using a Riemann sum for $f(x)$, with $n = 4$, sketch the curve of $f(x)$ as well as the approximating rectangles using right endpoints. Do **not** evaluate the sum.

    (b) Do the same as (a) but now using left endpoints. Do **not** evaluate the sum.

    (c) Without evaluating the sums, are these approximations equal to each other? Briefly explain why or why not.