

APPM 1350

Name: _____

Fall 2021

Quiz 8

11/02/2021

Time Limit: 10 Minutes

Recitation Section: _____

1. Let $f(x) = 1 - x^2$ be a curve on the interval $[-1, 1]$. 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.