Example Document

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January 10, 2022

For the left Riemann sum, approximating the function by its value at the left-end point gives multiple rectangles with base Δx and height $f(a+i\Delta x)$. Doing this for $i=0,1,\ldots,n-1$, and adding up the resulting areas gives

$$A_{left} = \Delta x \left[f(a) + f(a + \Delta x) + f(a + 2 \Delta x) + \dots + f(b - \Delta x) \right].$$