

1 | Reading

1.1 | Definition of a Definite Integral

For each interval $[x_i, x_{i+1}]$, we choose x_i^* in the interval to be the position of the minimum (for lower bound) or maximum (upper bound) value.

2 | Problems

2.1 | exr1.3

Using the left edge: -8.4375

Summation notation for left edge approximation:

$$\sum_{i=0}^n \underbrace{\frac{b-a}{n}}_{\text{width}} \underbrace{f\left(a + \frac{b-a}{n}i\right)}_{\text{height}}$$