## 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:

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

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