

4 - 2 Riemann Sums A Graphical Approach to Approximating the Definite Integral

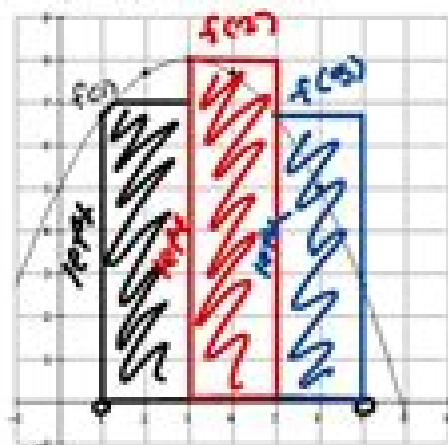
In calculus, the result of $\int f(x)dx$ is a function that represents the anti-derivative of the function $f(x)$. This is also sometimes referred to as an INDEFINITE INTEGRAL.

The result of $\int_a^b f(x)dx$ is a value that represents the area of the region bounded by the curve of $f(x)$ and the x -axis on the interval $a \leq x \leq b$.

Calculating Riemann sums is a way to *estimate* the area under a curve, the value of $\int_a^b f(x)dx$, for a graphed function on a particular interval. In this activity, you will learn to calculate four types of Riemann sums: Left Hand, Right Hand, Midpoint, and Trapezoidal Sums.

Approximation #1 - Left Hand Riemann Sum with intervals of length 2 units

Let's consider for a moment the function $f(x) = -\frac{1}{3}x^2 + 2x + 5$. This function is graphed below. On the interval $[1, 7]$ subdivide the area bounded by the graph of the function and the x -axis into rectangles of length 2 units. Place the upper left hand vertex of the rectangle on the curve each time. Then, calculate the area of each rectangle and sum the areas to *approximate* the area of the region under the curve bounded by $f(x) = -\frac{1}{3}x^2 + 2x + 5$, $x = 1$, $x = 7$, and the x -axis.



$$A = w \cdot h \\ 2 \cdot f(1)$$

$$A = 2 \cdot f(3)$$

$$A = 2 \cdot f(5)$$

$$A = 2f(1) + 2f(3) + 2f(5) = \frac{126}{3}$$

$$\approx 42.667 \text{ u}^2$$

Riemann Sums Mastermathmentor Answers

Lingjun Ying



Riemann Sums Mastermathmentor Answers:

The book delves into Riemann Sums Mastermathmentor Answers. Riemann Sums Mastermathmentor Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Riemann Sums Mastermathmentor Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Riemann Sums Mastermathmentor Answers
 - Chapter 2: Essential Elements of Riemann Sums Mastermathmentor Answers
 - Chapter 3: Riemann Sums Mastermathmentor Answers in Everyday Life
 - Chapter 4: Riemann Sums Mastermathmentor Answers in Specific Contexts
 - Chapter 5: Conclusion
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