

Approximating Area With Riemann Sums

Lesson 1: Approximating Areas with Riemann Sums

Topic 1.1: Exploring Accumulations of Change

Let's take a look at the relationship between the graph of a rate of change function and the region between that derivative graph and the x -axis. Consider the tropical cyclone belt more than 40 inches of rainfall over a 72-hour period in Southeast Texas during September.

EX #1: In order to avoid flood waters entering your house, you need a pump that at a rate of 500 gallons per hour for the first 8 hours of pumping. At the end of 8 hours you get a second pump, and, for the next 14 hours you could remove water using two pumps.

1A: Draw a graph that models the removal of storm water from your property.



Three Types of Riemann Sums

Left-Endpoint (Lower sum)
Inscribed Rectangles



Right-Endpoint (Upper sum)
Circumscribed Rectangles



We can define the area A under the graph on the interval $[a, b]$ as follows:

DEFINITE INTEGRAL DEFINED

Let f be continuous on $[a, b]$ and $P(x) = \frac{b-a}{n}$ for all n in the natural numbers. Let n subintervals of equal length $\Delta x = \frac{b-a}{n}$. Then, the definite integral is given by:

$$A = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(x_i) \Delta x = \int_a^b f(x) dx$$

General Solution Method For Inscribed or Circumscribed (Lower or Upper Sums):

1. Draw a rough graph of the function over the interval.
2. Use formula $\Delta x = \frac{b-a}{n}$ to determine each subinterval length.
3. Compute x -coordinates of rectangles at either left-end or right-end.
4. Compute the areas of each rectangle (inscribed or circumscribed).
5. Find the summation of the approximated areas of the rectangles.

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Topic 1.2: Approximating Areas with Riemann Sums

What approach can we take if the rate of change function is not constant?

The two big ideas in calculus are the tangent line problem and the area problem. In the **tangent line problem**, you saw how the limit process could be applied to find the slope of the tangent line (i.e. the derivative) at any point on the curve. In second-semester calculus is in finding the **area under a curve** that is bounded by the graph, the x -axis, and any two x -values.

A basic version of "Area as Limits." In the "limit of rectangles" approach, we take the area under a curve $y = f(x)$ above the interval $[a, b]$ by approximating a collection of **inscribed** or **circumscribed** rectangles in such a way that, the more rectangles used, the better the approximation. Finally, the number of rectangles is increased without limit and, lo and behold, we get the area! Now known as integration.

Specifically, we are interested in finding the area A of a region bounded by the x -axis, the graph of a **nonnegative** function $y = f(x)$ defined on some interval $[a, b]$.

Note: The requirement that f be nonnegative on $[a, b]$ means that no portions of the graph lie the interval is below the x -axis. By using rectangles, we can see that there are three different ways of approximating the area for A . This method is commonly known as **Riemann Sums**.

EX #2: Consider a 50-gallon aquarium is being filled with water at a rate modeled by $r(t) = 4 - \sin\left(\frac{\pi}{10}t\right)$, where t is time, in minutes, and $r(t)$ is gallons per minute. Find the volume of water in the tank after 5 minutes by using five rectangles that are 1-minute wide and $r(t)$ in height.

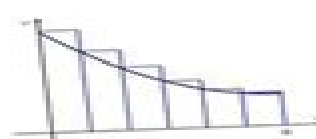


By using more rectangles with smaller widths, we could achieve a better approximation. In fact, if we considered taking this to a limit of accumulating an infinite number of rectangles we would arrive at the exact volume of water in the aquarium after 5 minutes. This is called the **definite integral** and is represented by the notation:

$$\int_a^b r(t) dt$$

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1B. What are the values of...



2. Find the area A under the graph of $f(x) = 2x^2 + 3$ on the interval $[0, 2]$ with $n = 4$ partitions using the Trapezoidal sum method.



3. Find the area A under the graph of $f(x) = 2x^2 + 3$ on the interval $[0, 2]$ with $n = 4$ partitions using the Trapezoidal sum method.

Calculus



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