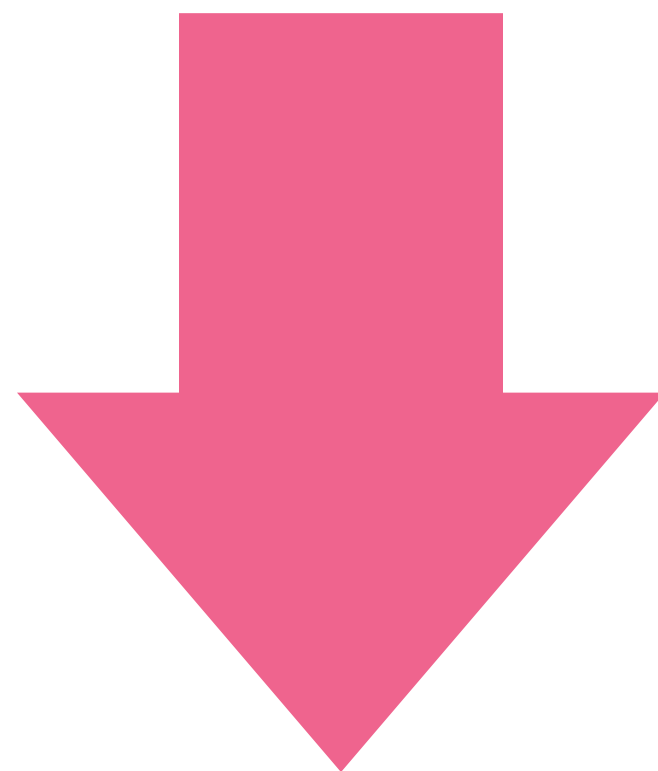


This is the BIG Bundle for AP Calculus AB/BC Integration-The Accumulation of Change.

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bundle of notes, practice
and more!

Take a
look
inside!



AP[®] Calculus-AB
Integration
Accumulation of Change

Flamingo MATH
Jean Adams

The table below represents the velocity, $v(t)$, in feet per second of a car traveling on a straight road over a 50-second time interval. We want to estimate the distance the car traveled over this interval using RHS and LHS along with two different approximation techniques, the midpoint and trapezoid rules. Use the table along with the graph for your computations.

t (sec)	0	5	10	15	20	25	30	35	40	45	50
$v(t)$ (ft/sec)	0	14	20	28	52	70	80	86	77	70	74

A. Estimate the total distance traveled by the car by using the Left-Hand Sum method, L_5 , with five partitions of equal length. Show your setup and draw the rectangles on graph #1, in blue.

$LH_5 = 10[0 + 20 + 52 + 80 + 77] \text{ ft} \cdot \text{sec}$
 $LH_5 = 10(229) \text{ ft} = \underline{2,290 \text{ ft}}$

Right-Hand Sum with 5 partitions, R_5

BIG Bundle

Completely Editable

6

WHAT IS INCLUDED?



Editable Guided Student Notes, Practice sets, and Daily Quizzes



Google Slides



Video lessons



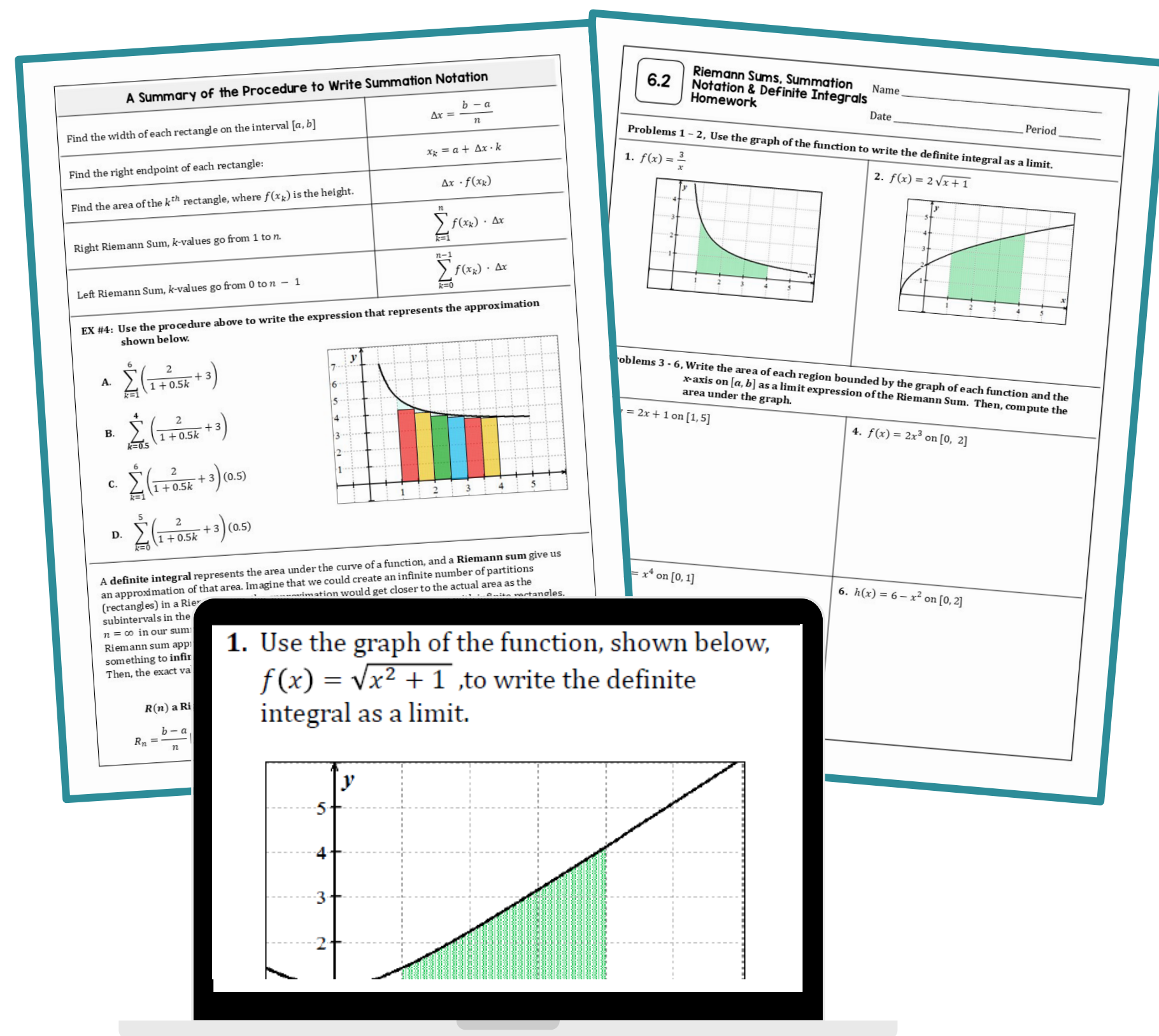
Assessments & Review



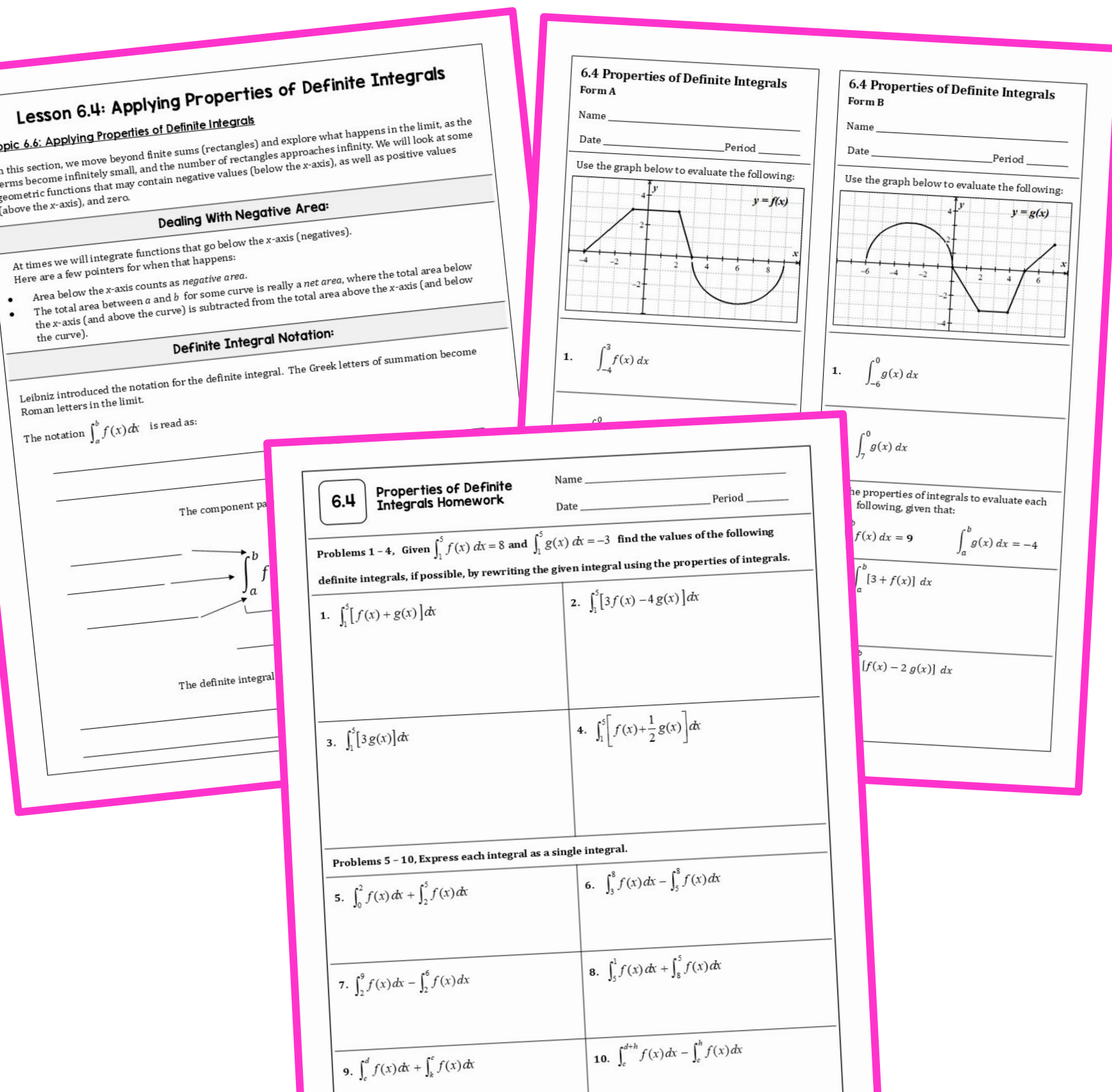
Full solution sets



Scope, Sequence, Pacing



Rigorous lessons and practice sets aligned to course standards is here.



Where do you find extra time to write AP-Style notes and practice sets?



Is your class instruction aligned to the CED learning objectives and topics?



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- ❑ Each lesson includes Google Slides for your presentation needs.
- ❑ You will also have a **fully-editable version** for every lesson, practice set, daily quiz and assessment.
- ❑ A pacing guide for both AB and BC lessons and testing schedule.

AP CALCULUS AB CURRICULUM	
Scope and Sequence	
Unit 6: Integration - Accumulation of Change	
Lesson	Skills & Learning Objectives
[6.1] Approximating Area with Riemann Sums	❑ Use Left, Right, and Midpoint Riemann Sums and Trapezoidal Rule to estimate area under a curve
[6.2] Sigma Notation and Riemann Sums	❑ Apply the properties of sequences to write integrals as a limit of right-hand sums.
[6.3] Accumulation Functions	❑ Use FTC to analyze functions, find displacement, total distance, and more.
[6.4] Properties of Definite Integrals	❑ Calculate a definite integral using areas and properties of definite integrals
[6.5] Antiderivatives and Indefinite Integrals	❑ Construct the general anti-derivative of a function through discovery and check approach.
[6.6] The Fundamental Theorem of Calculus	❑ Use the Fundamental Theorem of Calculus to find the definite integral of a function over an interval.
[6.7] Integration by Substitution	❑ Use pattern recognition and change of variables to find indefinite and definite integrals
[6.8] Integrals of Transcendental Functions	❑ Use rules of integration for transcendental functions, including inverse trigonometric rules.
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Full Year Curriculum

The MEGA Bundle provides eight units for the entire AP Calculus AB course, including activities, video lessons, presentation tools, and so much more.

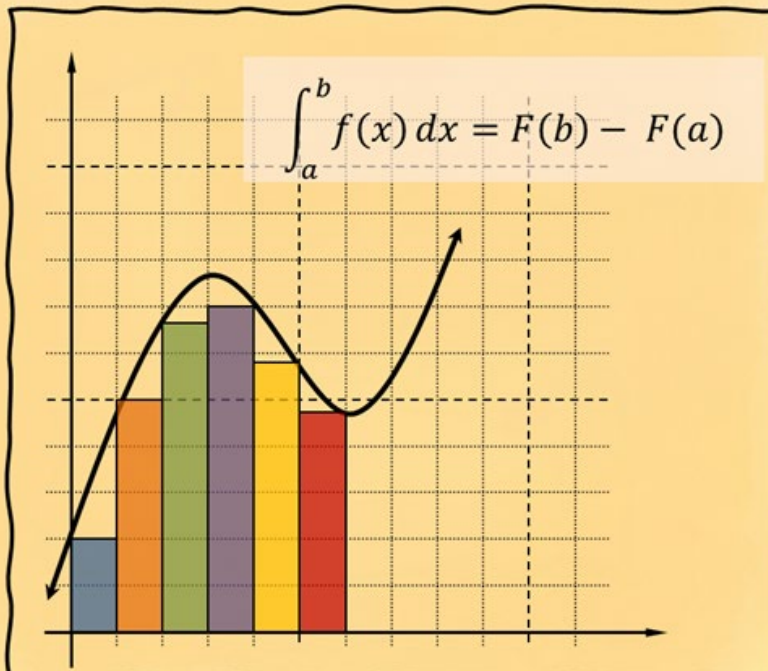
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Flamingo Math

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- ☐ Activities
- ☐ and More



$\int_a^b f(x) dx = F(b) - F(a)$

Guided Notes • Practice • Assessments

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