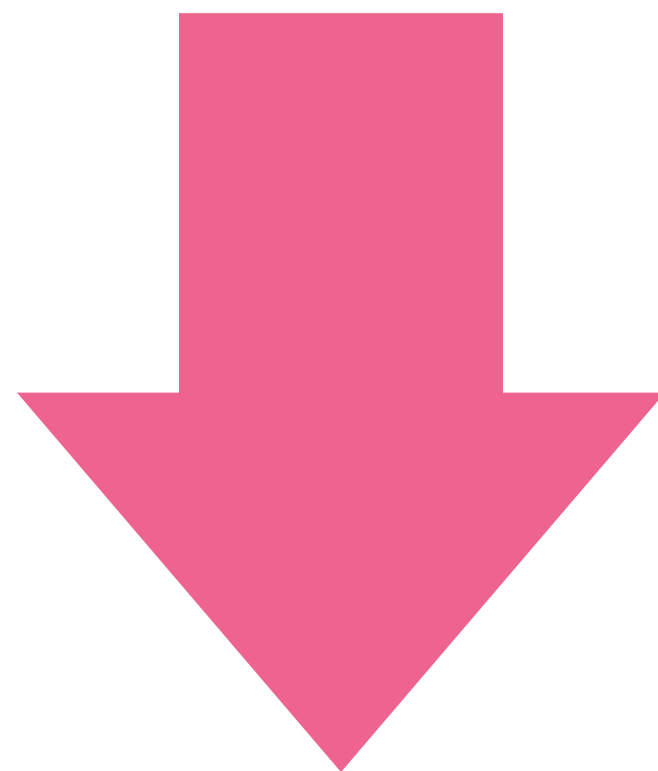


This is the BIG Bundle for AP Calculus AB/BC Analytic Applications of the Derivative.

All new completely-editable bundle of notes, practice and more!

Take a
look
inside!



AP[®] Calculus
**Analytical Applications
of the Derivative**

Determine any points of inflection and discuss concavity of the graph of $f(x) = x^4 - 4x^3$

Flamingo MATH
Jean Adams

$f'(x) = 4x^3 - 12x^2$
 $4x^2(x-3) = 0$
 $x=0, x=3$

$f''(x) = 12x^2 - 24x$
 $12x(x-2) = 0$
 $x=0, x=2$

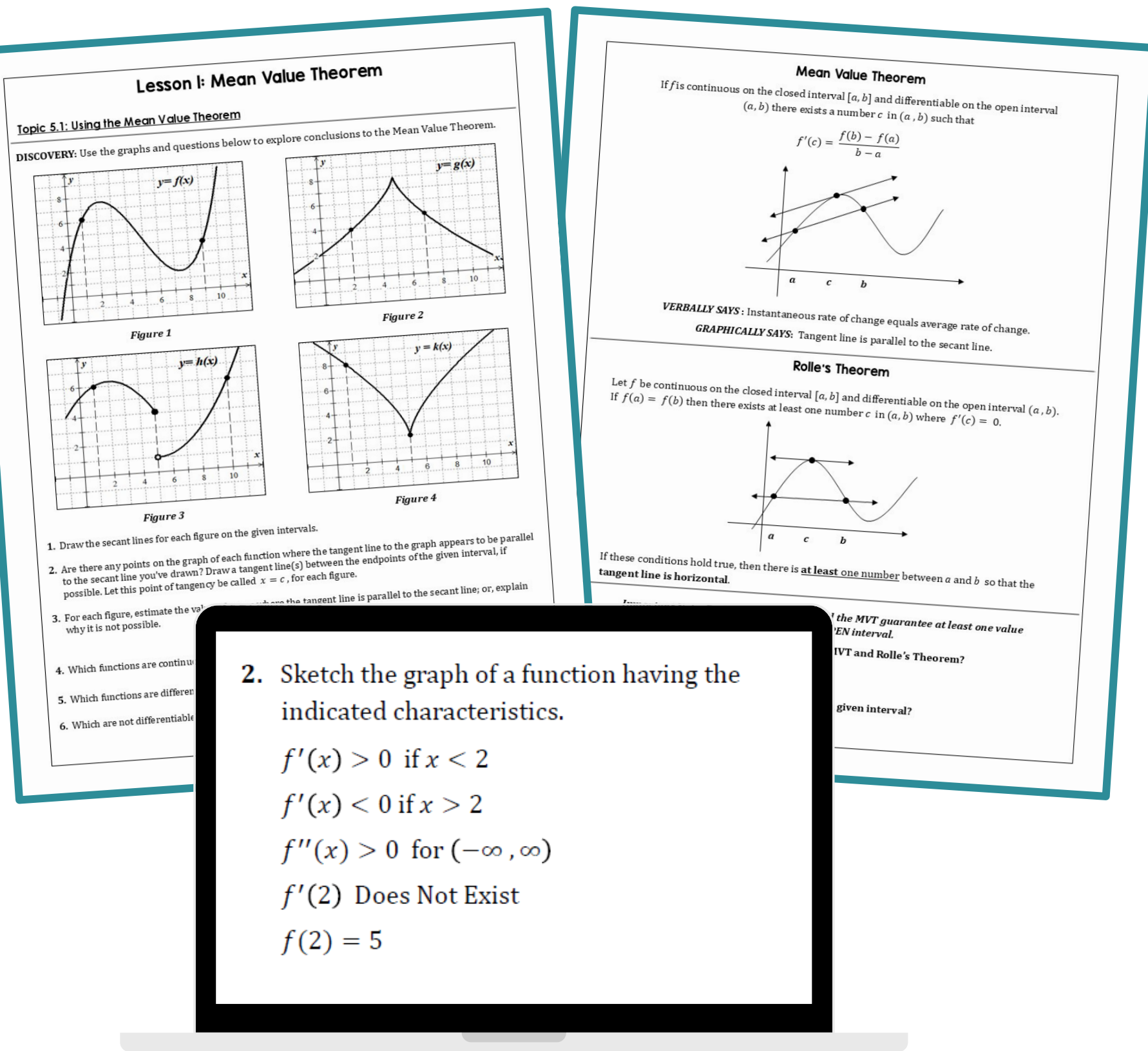
Test #	-1	1	3
Critical #	U	0	2
Sign $f''(x)$	++	0	--

1) Points of inflection occur at $f(0)=0$ and $f(2)=-16$
2) $f(x)$ is concave down on $(0,2)$ b/c $f''(x) < 0$.
3) $f(x)$ is concave up on $(-\infty, 0)$ and $(2, \infty)$ b/c $f''(x) > 0$.

BIG Bundle
Completely Editable

5

WHAT IS INCLUDED?



Editable Guided Student Notes, Practice sets, and Daily Quizzes



Google Slides



Video lessons



Assessments & Review

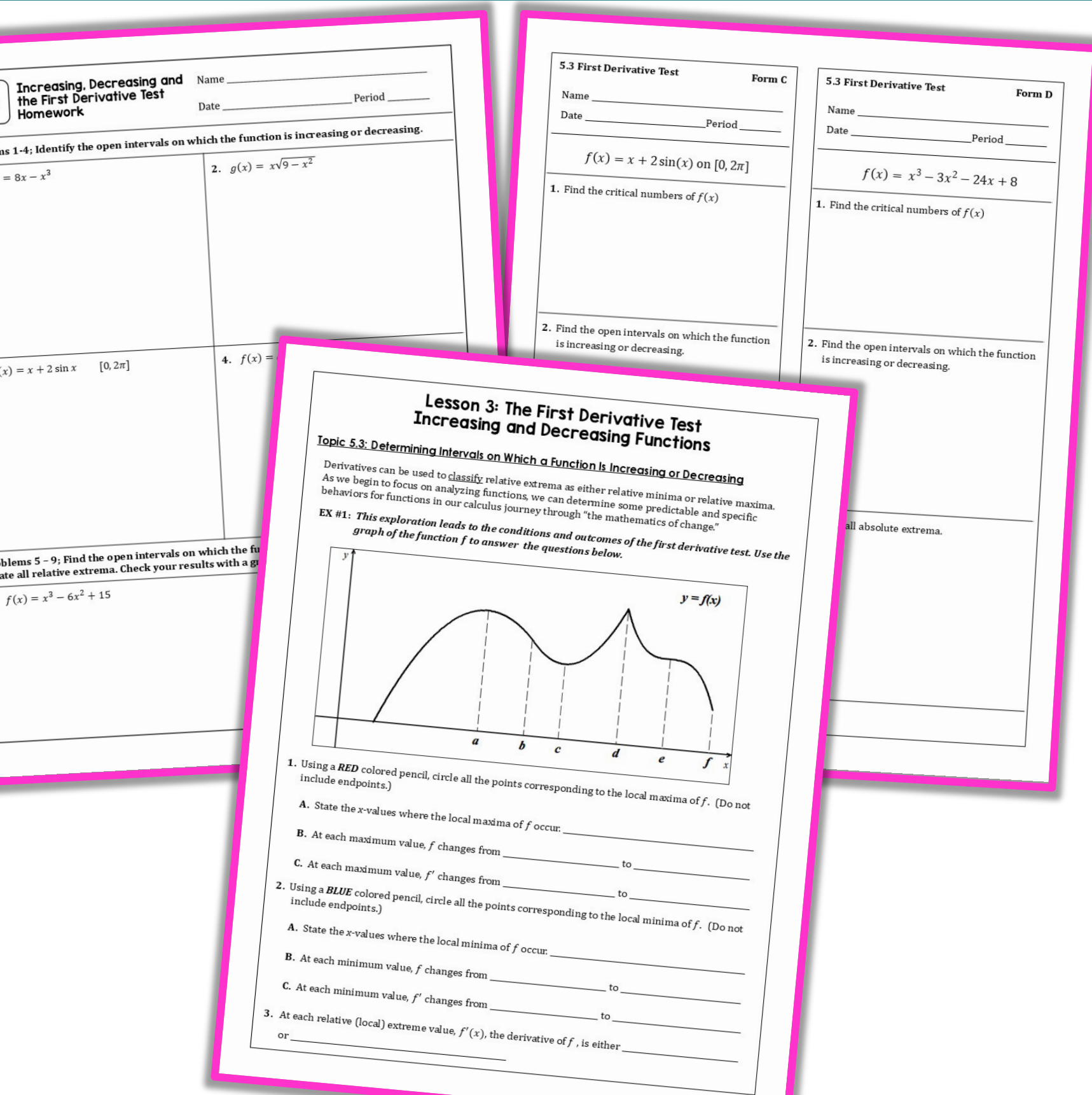


Full solution sets



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?



You need resources that will challenge your students to the AP[®] rigor for success.

Flamingo Math will help bring balance into your teacher life!

Cover the Standards

Each lesson will provide you and your students with the skills and learning objectives necessary for success in the AP Environment.

- ☐ You will find an editable scope and sequence document to track the learning objectives for the unit.
- ☐ 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 CURRICULUM	
Scope and Sequence	
Unit 5: Analytic Applications of Differentiation	
Lesson	Skills & Learning Objectives
[5.1] The Mean Value Theorem	☐ Apply the Mean Value Theorem to describe the behavior of a function over an interval
[5.2] Extrema on an Interval	☐ Use derivatives to find local and global extrema ☐ Use both open interval and closed interval methods for finding extrema. (Candidates Test) ☐ Use and apply the Extreme Value Theorem on intervals
[5.3] Increasing, Decreasing & First Derivative Test	☐ Use the first derivative test to find intervals of increase and decrease; maximum and minimum values
[5.4] Concavity & Second Derivative Test	☐ Use the second derivative test to find points of inflection, intervals where the function is concave up or concave down, and to find maximum and minimum values
[5.5] Sketching Graphs of Functions f , f' and f''	☐ Use the first and second derivative tests to analyze and sketch functions
[5.6] Optimization	☐ Optimize real-world situations by finding values that maximize or minimize constraints
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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.

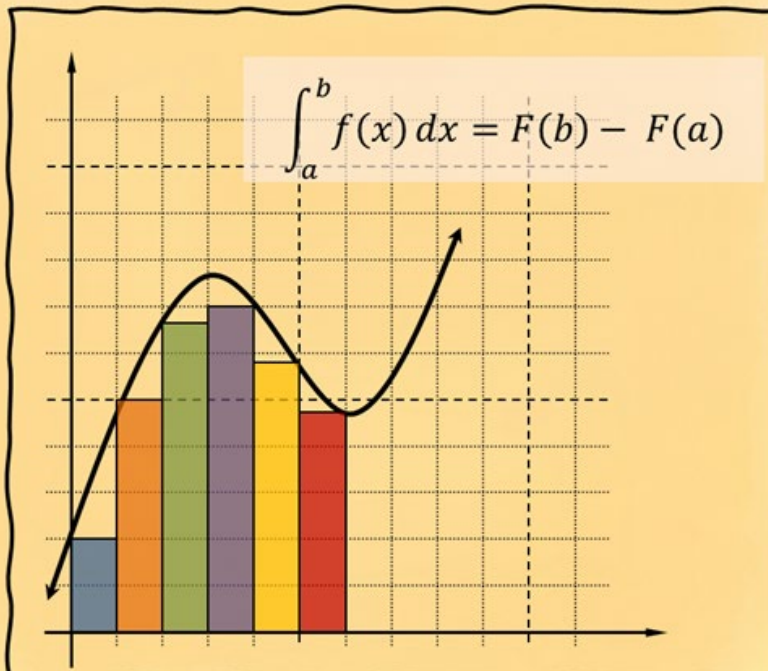
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- Let Flamingo Math help you teach!

“Excellent resource to prepare for the AP calc test. Just finished an AP workshop and am really impressed how aligned this bundle is for getting the Calculus taught. Thank you fir all the hard work put into it. It's a fabulous resource.. *Linda A.*”

AP CALCULUS AB MEGA Bundle

Flamingo Math

- ☐ SMARTBoard
- ☐ Activities
- ☐ and More



Guided Notes • Practice • Assessments

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