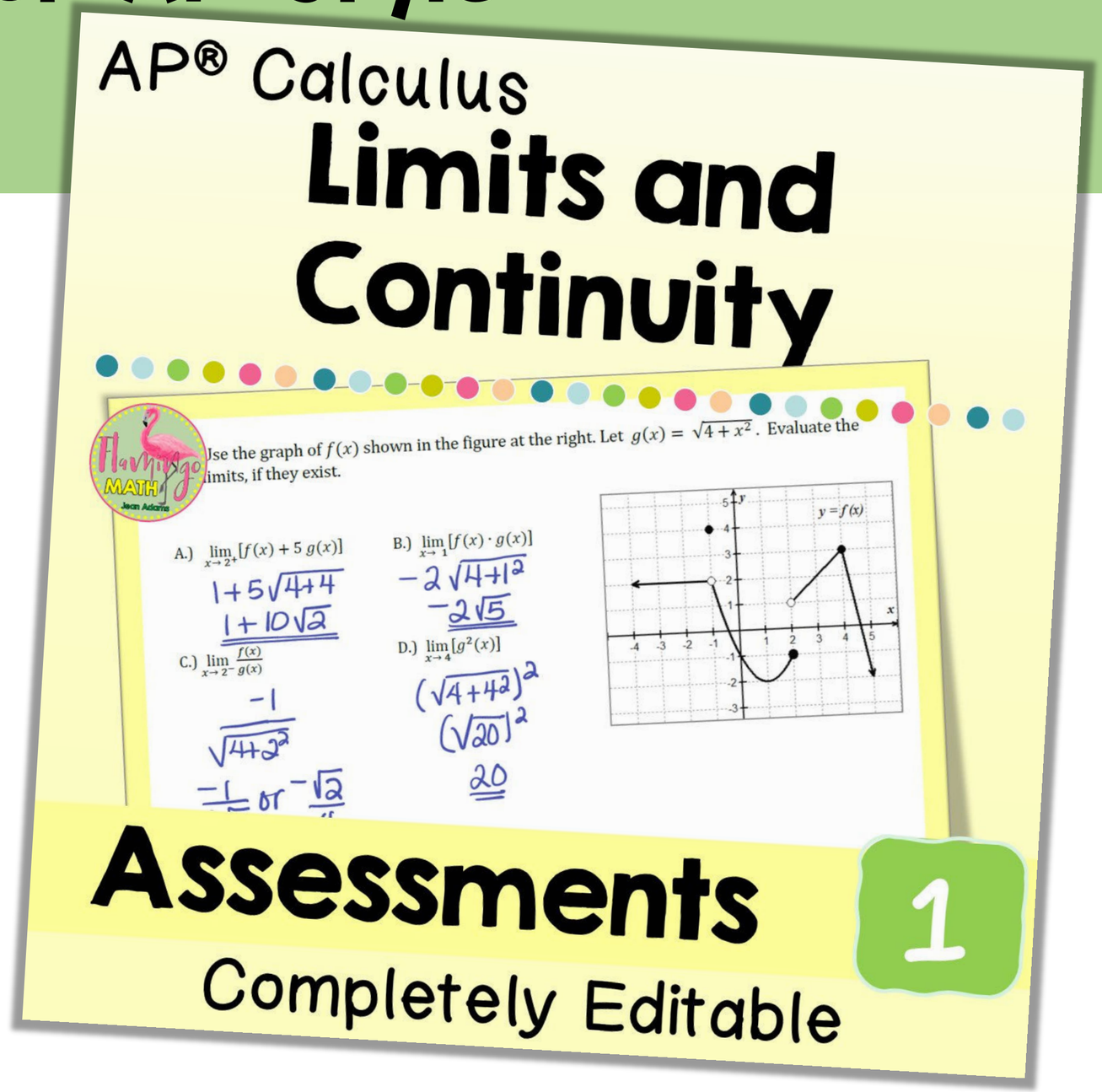
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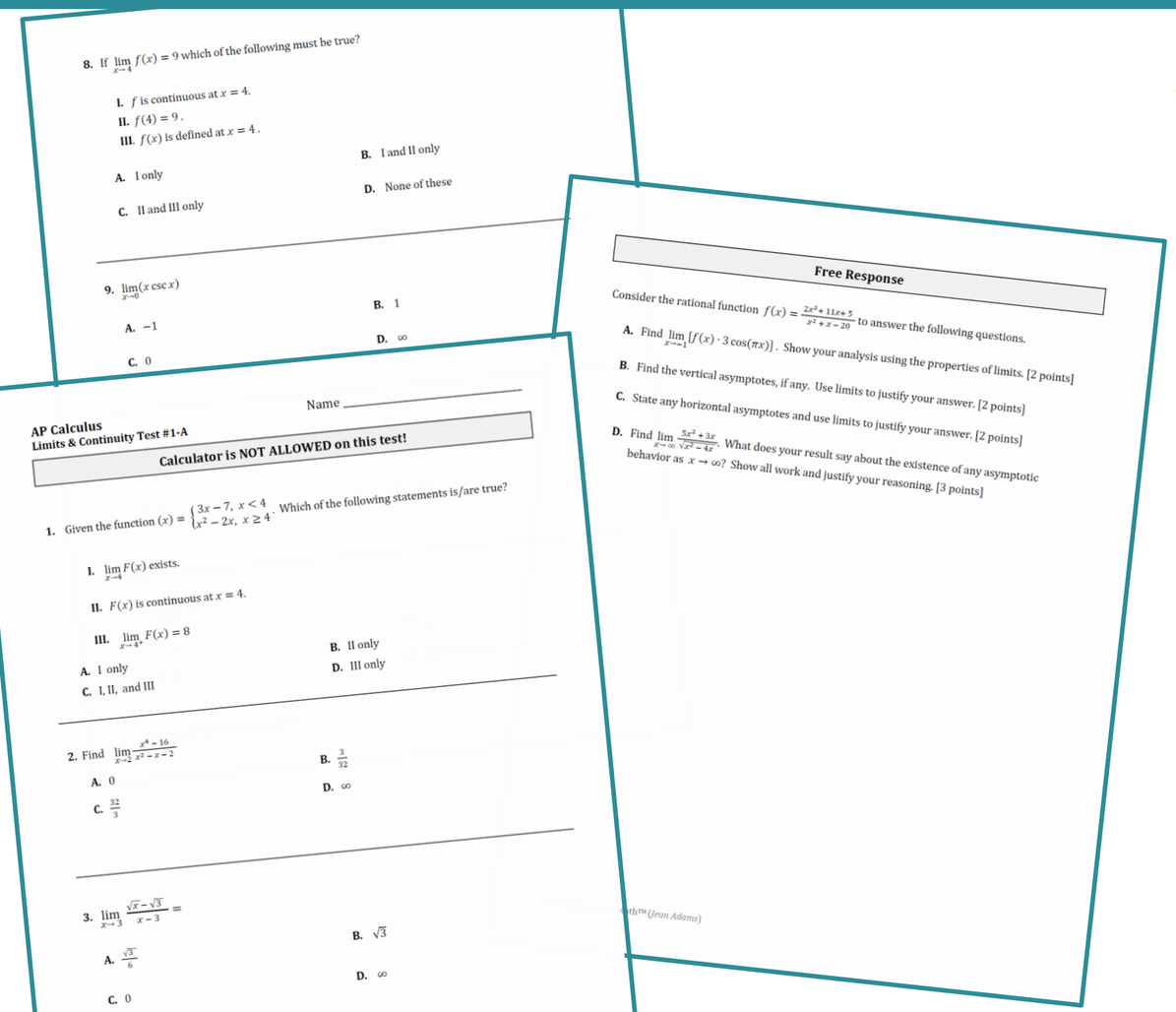
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Rigorous assessments aligned to course standards is here.



8. If $\lim_{x \to 4} f(x) = 9$ which of the following must be true?

I. f is continuous at $x = 4$.
II. $f(4) = 9$.
III. $f(x)$ is defined at $x = 4$.

A. I only
B. I and II only
C. II and III only
D. None of these

9. $\lim_{x \to 0} (x \csc x)$

A. -1
B. 1
C. 0
D. ∞

Free Response

Consider the rational function $f(x) = \frac{2x^2 + 11x + 5}{x^2 + x - 20}$ to answer the following questions.

A. Find $\lim_{x \to 1} [f(x) \cdot 3\cos(\pi x)]$. Show your analysis using the properties of limits. [2 points]

B. Find the vertical asymptotes, if any. Use limits to justify your answer. [2 points]

C. State any horizontal asymptotes and use limits to justify your answer. [2 points]

D. Find $\lim_{x \to \infty} \frac{5x^2 + 3x}{\sqrt{x^2 - 4x}}$. What does your result say about the existence of any asymptotic behavior as $x \to \infty$? Show all work and justify your reasoning. [3 points]

Math™ (Jean Adams)

AP Calculus
Limits & Continuity Test #1-A

Name _____

Calculator is NOT ALLOWED on this test!

1. Given the function $(x) = \begin{cases} 3x - 7, & x < 4 \\ x^2 - 2x, & x \geq 4 \end{cases}$. Which of the following statements is/are true?

I. $\lim_{x \to 4} F(x)$ exists.
II. $F(x)$ is continuous at $x = 4$.
III. $\lim_{x \to 4^+} F(x) = 8$

A. I only
B. II only
C. I, II, and III
D. III only

2. Find $\lim_{x \to 2} \frac{x^4 - 16}{x^2 - x - 2}$

A. 0
B. $\frac{3}{32}$
C. $\frac{32}{3}$
D. ∞

3. $\lim_{x \to 3} \frac{\sqrt{x} - \sqrt{3}}{x - 3} =$

A. $\frac{\sqrt{3}}{6}$
B. $\sqrt{3}$
C. 0
D. ∞

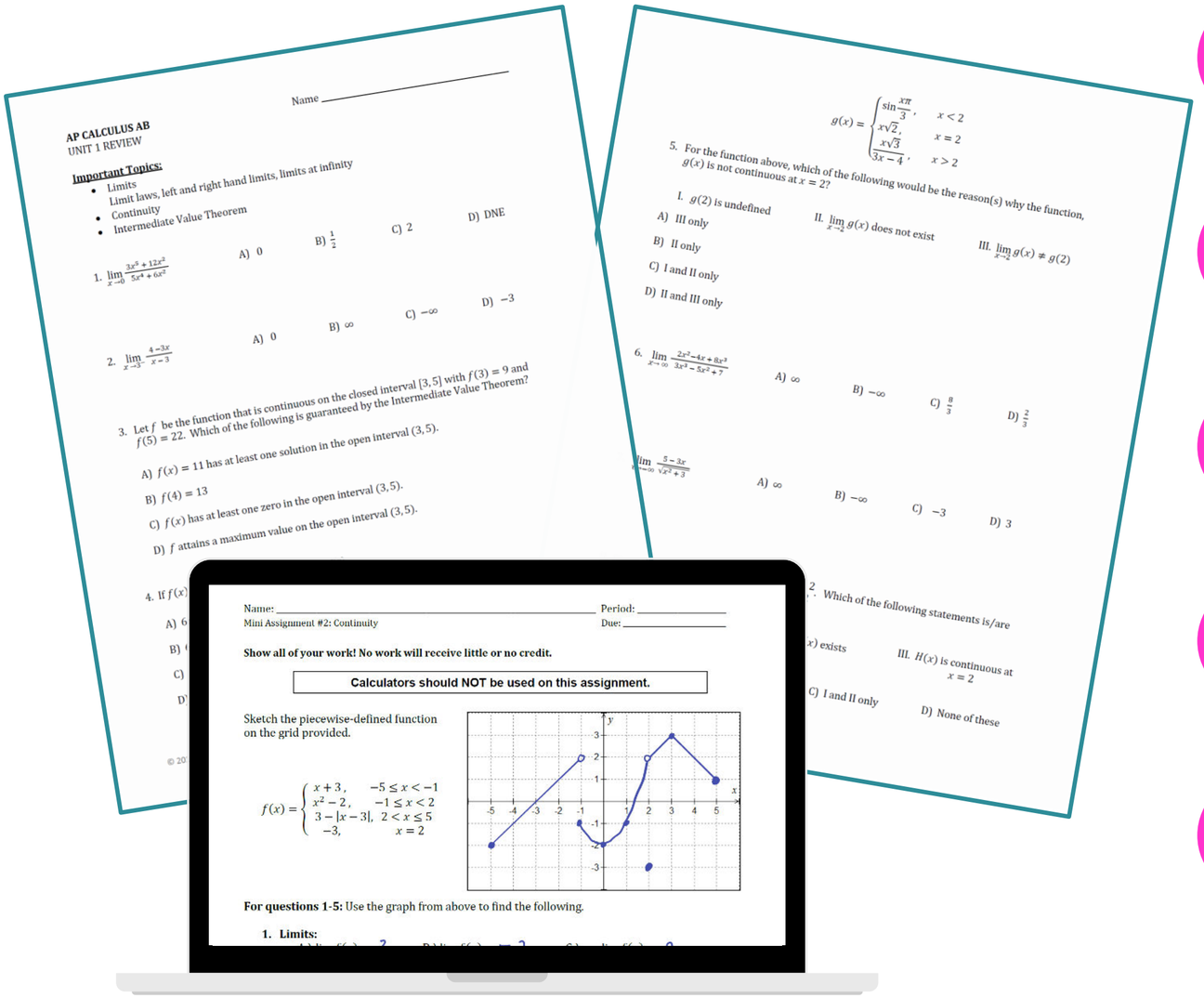
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- Where do you find extra time to write AP-Style assessments?
- Is your class instruction aligned to the new learning objectives and topics?
- You need assessments that will challenge your students to the AP® rigor for success.

Flamingo Math will be your silent testing partner!

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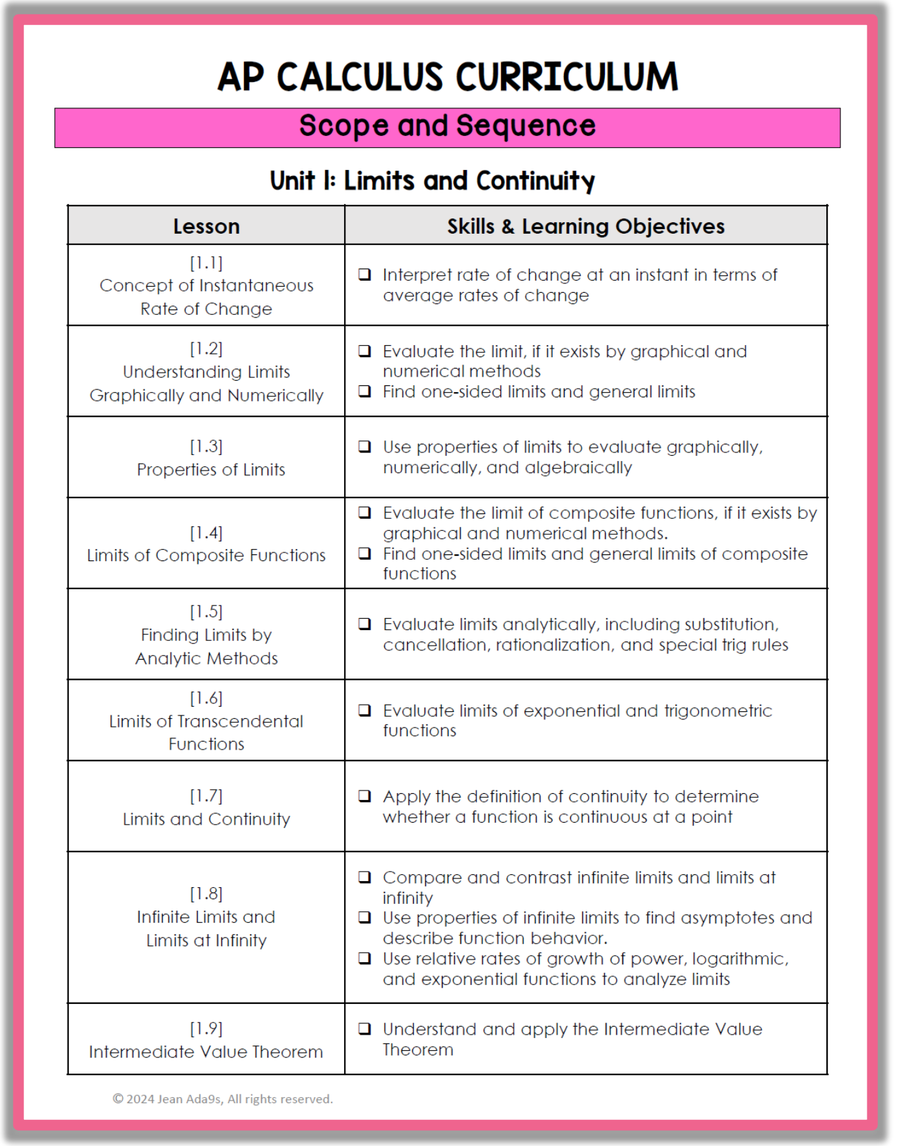
- Editable Review assignments
- Editable assessments
- Full solution sets
- Extra Practice Topics
- Scope and Sequence

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Cover the Standards

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

- ❑ You will find a scope and sequence document to track the learning objectives for the unit.
- ❑ Each quiz and test is available in two unique forms.
- ❑ You will also have a ***fully-editable version*** for every review, quiz and test to create extra assessment tools.
- ❑ A pacing guide for both AB and BC lessons and testing schedule.



AP CALCULUS CURRICULUM

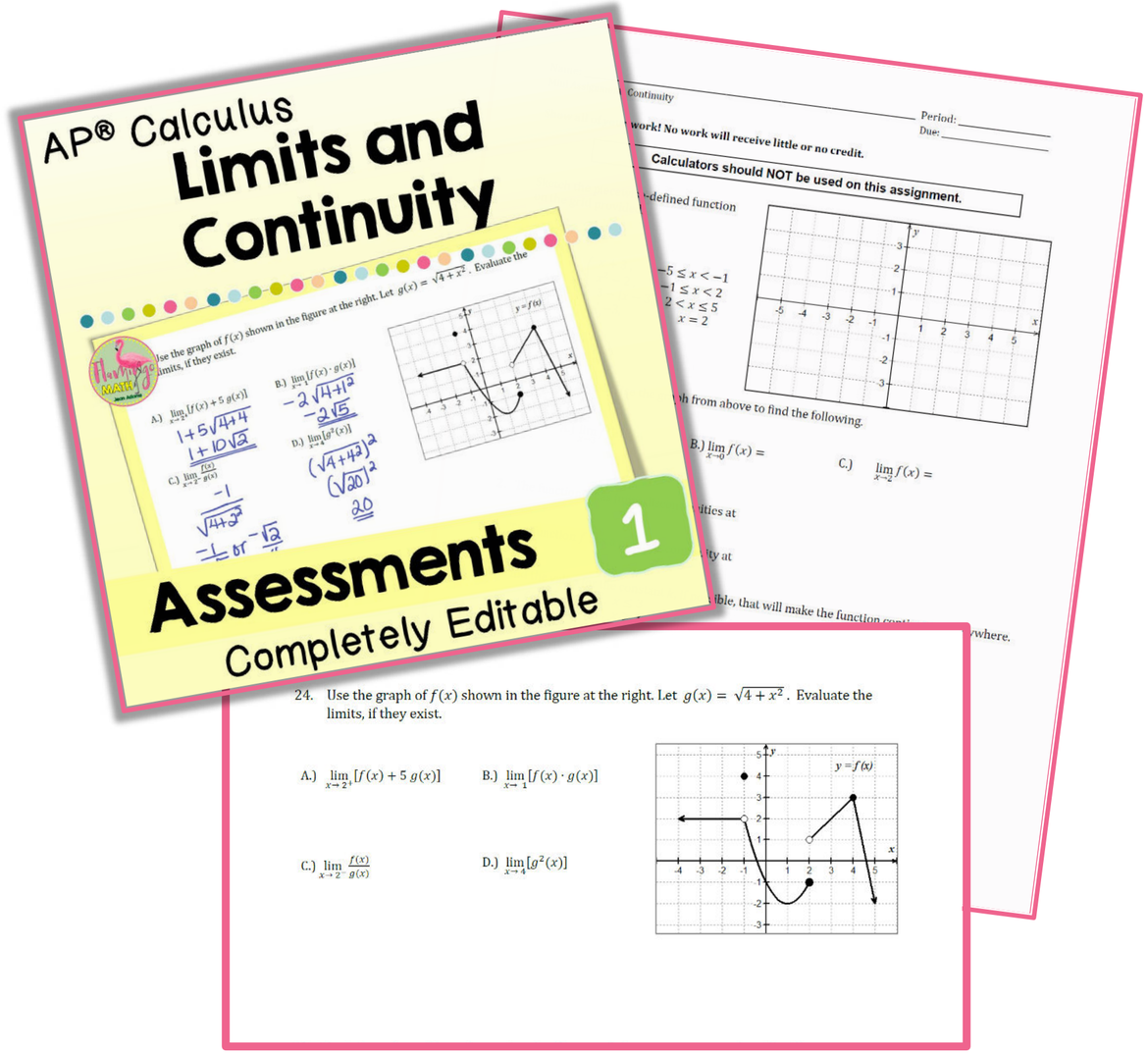
Scope and Sequence

Unit 1: Limits and Continuity

Lesson	Skills & Learning Objectives
[1.1] Concept of Instantaneous Rate of Change	❑ Interpret rate of change at an instant in terms of average rates of change
[1.2] Understanding Limits Graphically and Numerically	❑ Evaluate the limit, if it exists by graphical and numerical methods ❑ Find one-sided limits and general limits
[1.3] Properties of Limits	❑ Use properties of limits to evaluate graphically, numerically, and algebraically
[1.4] Limits of Composite Functions	❑ Evaluate the limit of composite functions, if it exists by graphical and numerical methods. ❑ Find one-sided limits and general limits of composite functions
[1.5] Finding Limits by Analytic Methods	❑ Evaluate limits analytically, including substitution, cancellation, rationalization, and special trig rules
[1.6] Limits of Transcendental Functions	❑ Evaluate limits of exponential and trigonometric functions
[1.7] Limits and Continuity	❑ Apply the definition of continuity to determine whether a function is continuous at a point
[1.8] Infinite Limits and Limits at Infinity	❑ Compare and contrast infinite limits and limits at infinity ❑ Use properties of infinite limits to find asymptotes and describe function behavior. ❑ Use relative rates of growth of power, logarithmic, and exponential functions to analyze limits
[1.9] Intermediate Value Theorem	❑ Understand and apply the Intermediate Value Theorem

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> This bundle was full of great questions and assessments. This is aligned very well with the AP Calculus CED. *Matthew R.*

> I love all of these unit bundles! They helped me so much during my first year of teaching ap calculus. *Natalie H.*

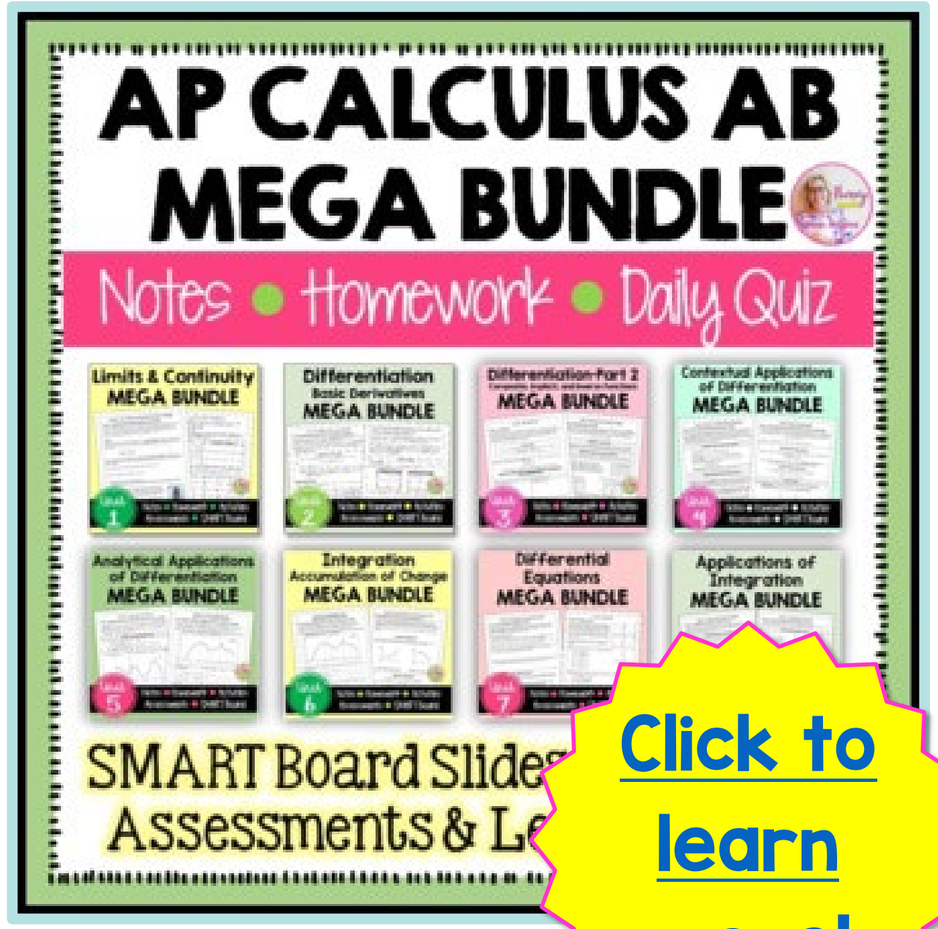
> Great assessments! It was a huge help to have written assessments so that I could focus on our learning! *Kristin R.*

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