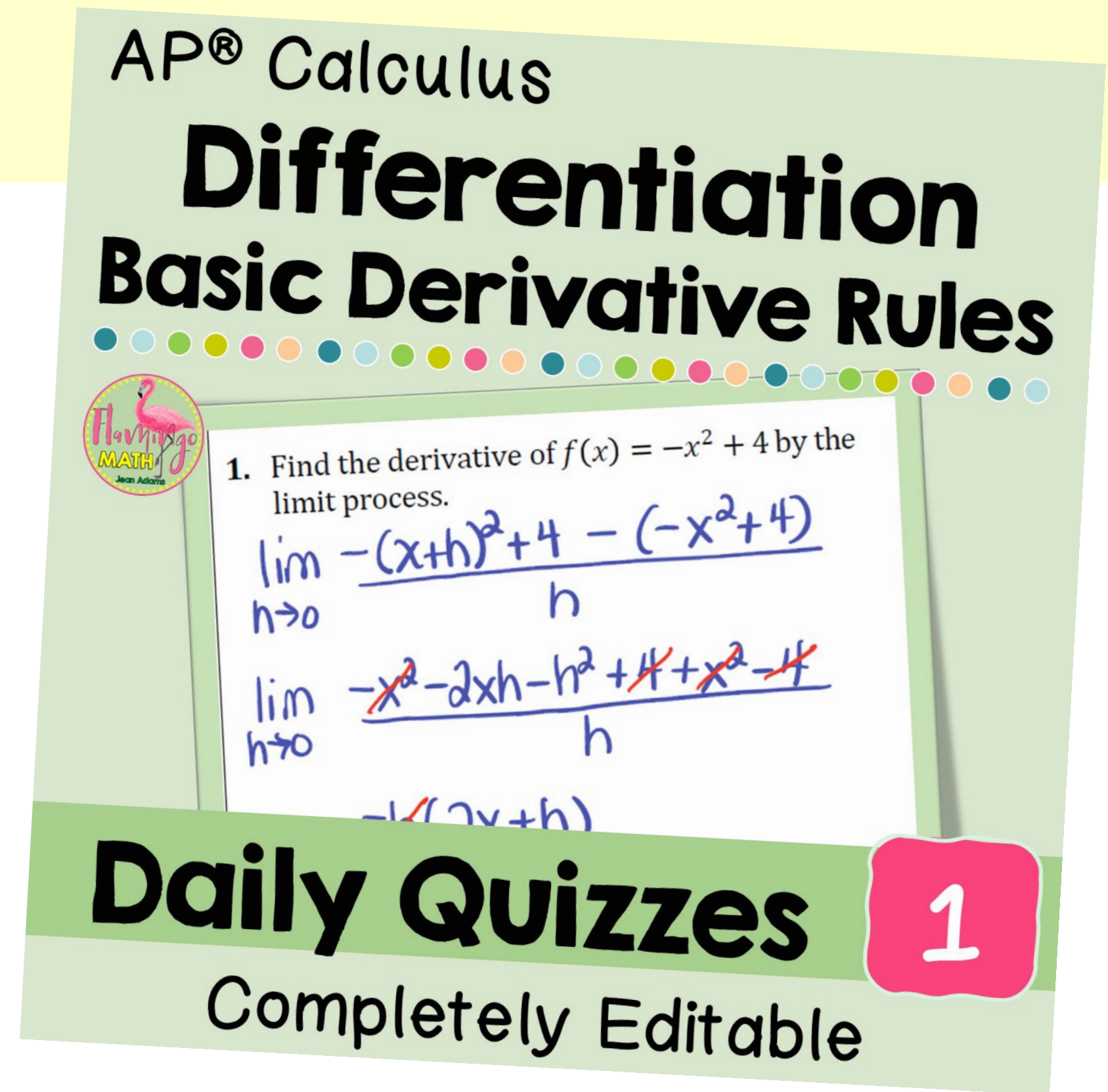
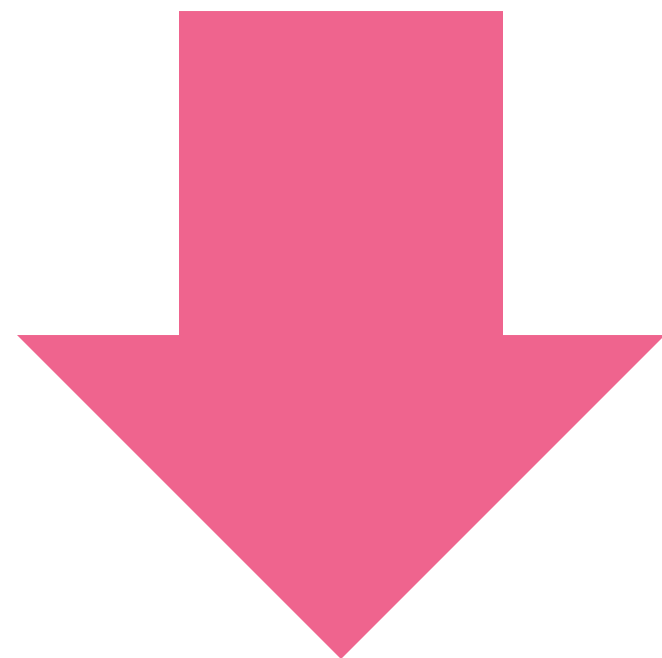


Are you searching for Daily Lesson Topics Formative Assessments?

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WHAT IS INCLUDED?

The image displays three overlapping worksheets and a laptop screen. The worksheets are titled 'Investigating Slope Graphs' and 'Differentiability & Continuity'. The laptop screen shows a math problem about a particle's position.

Worksheet 1: Investigating Slope Graphs Form A

1. Match the points on the graph of $f(x)$ with the value of $f'(x)$.

$f'(x)$	x
-4	
-2	
$-\frac{1}{4}$	
0	
1.5	
3	

2. Sketch the graph of $f'(x)$ given the graph of $f(x)$ below.

Worksheet 2: Investigating Slope Graphs Form B

1. Match the points on the graph of $f(x)$ with the value of $f'(x)$.

$f'(x)$	x
-6	
-4	
0	
2	
4	
5	

2. Sketch the graph of $f'(x)$ given the graph of $f(x)$ below.

Worksheet 3: Differentiability & Continuity Form C

1. Find the value of the constant k that makes the function continuous.

$$f(x) = \begin{cases} kx^2, & x > -1 \\ kx + 7, & x \leq -1 \end{cases}$$

2. In the graph shown above, use the three rules of continuity to discuss where the function is not continuous or not differentiable.

Worksheet 4: Differentiability & Continuity Form D

1. Find the value of the constant k that makes the function continuous.

$$f(x) = \begin{cases} 1.5kx, & x < 2 \\ k^2 - x^2, & x \geq 2 \end{cases}$$

2. In the graph shown above, use the three rules of continuity to discuss where the function is not continuous or not differentiable.

Laptop Screen:

A particle moves along a line so that its position at any time $t \geq 0$ is given by the function $s(t) = t^3 - 9t^2 + 18$. Find the following and show supporting work.

- Find the velocity at $t = 4$.

✓ Editable Daily Lesson Quizzes

✓ Full solution sets

✓ Four different versions

✓ Scope and Sequence

✓ Pacing Guide

Cover the Standards

Each daily lesson quiz 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 daily quiz is available in four unique forms.
- ❑ You will also have a **fully-editable version** for every lesson to create extra assessment tools.
- ❑ A pacing guide for both AB and BC lessons.

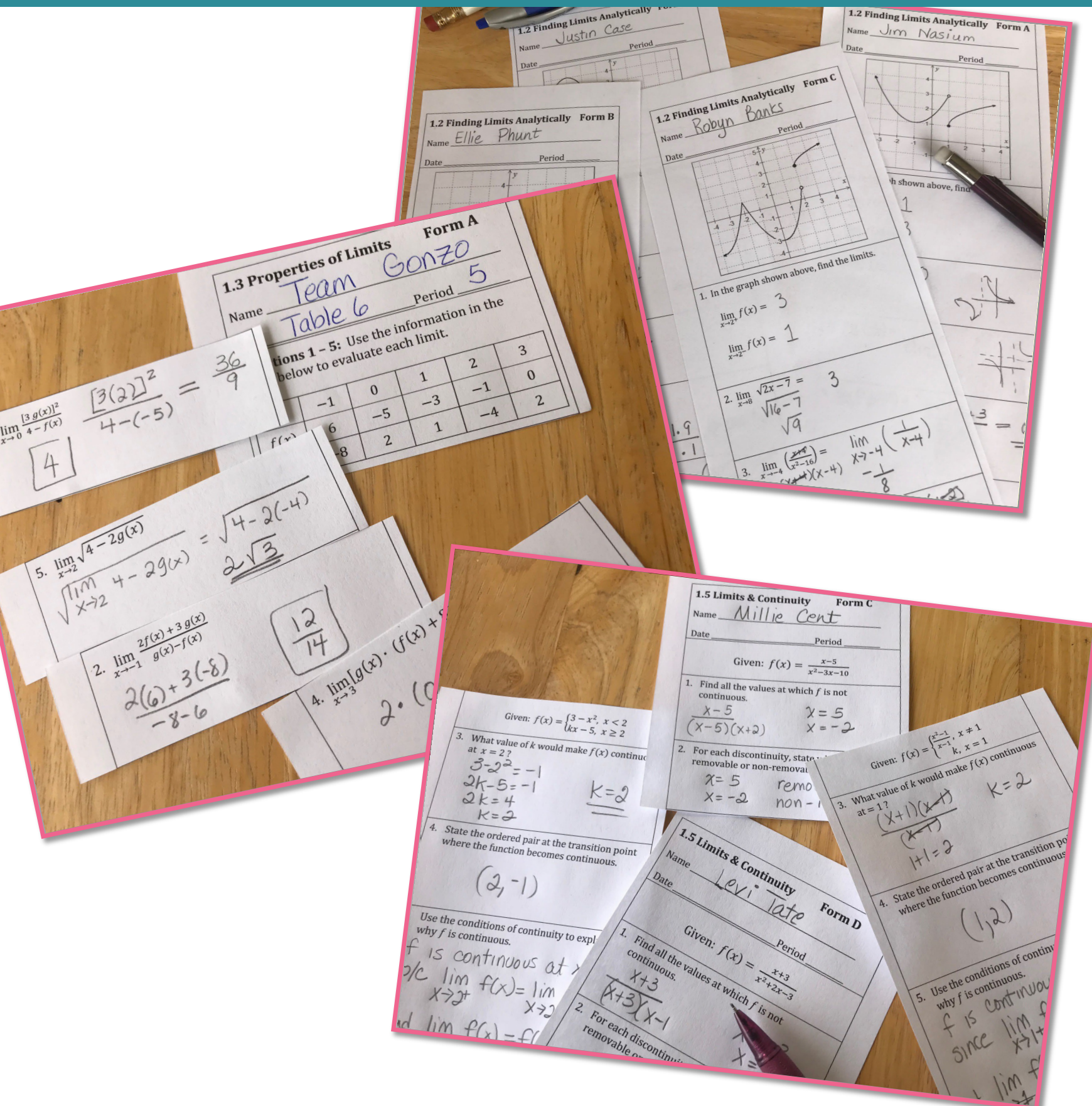
AP CALCULUS CURRICULUM

Scope and Sequence

Unit 2: Differentiation - Basic Derivative Rules

Lesson	Skills & Learning Objectives
[2.1] Rates of Change and the Tangent Line Problem	❑ Interpret rates of change over an interval or at a single point by graphical and numerical methods ❑ Write equations of tangent lines and normal lines
[2.2] Tangent Lines and the Derivative	❑ Use limit definition of the derivative, proper notation to find the general form of a derivative ❑ Analyze function behavior using the derivative
[2.3] Understanding the Derivative and Linear Approximations	❑ Explore the concept of local linearity ❑ Use the tangent line to investigate function behavior ❑ Estimate derivatives graphically and from tables
[2.4] Differentiability and Continuity	❑ Understand the relationship between differentiability and continuity
[2.5] Basic Differentiation Rules	❑ Find derivatives using basic rules of differentiation for polynomial, power, sine, cosine, tangent, exponential and logarithmic functions
[2.6] Product and Quotient Rules	❑ Apply the product and quotient rules algebraically for polynomial, power, sine, cosine, tangent, exponential and logarithmic functions
[2.7] Velocity and Other Rates of Change	❑ Solve basic rectilinear motion problems involving position, speed, velocity and acceleration ❑ Interpret the effect of a one-unit change

Rigorous assessments to help differentiate instruction time.



Use different forms for independent work, or whole class discussion.



Cut prompts into pieces for a collaborative group experience.



Use as a warm-up exercise, exit ticket, or homework check grade.

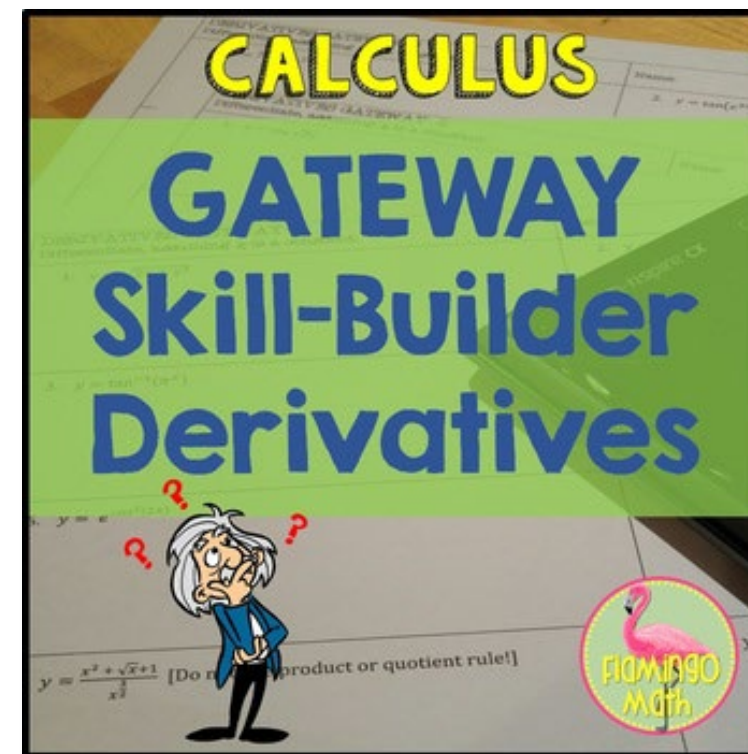
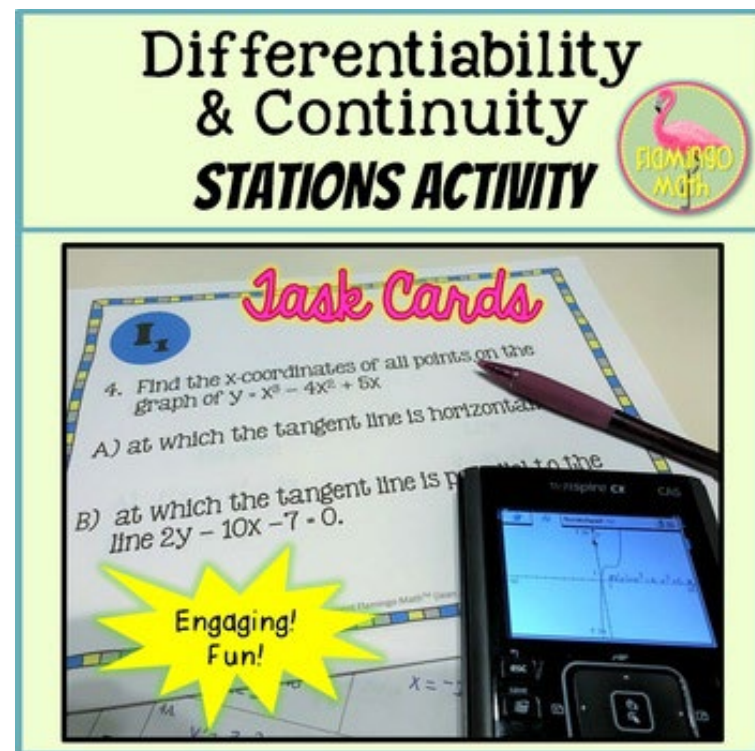
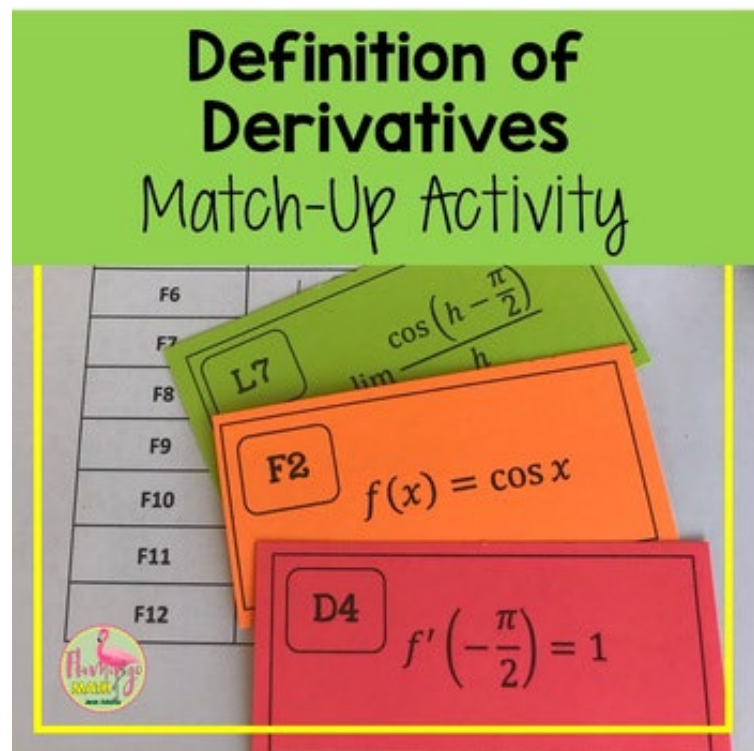
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More Resources for YOU



My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

 Jean



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