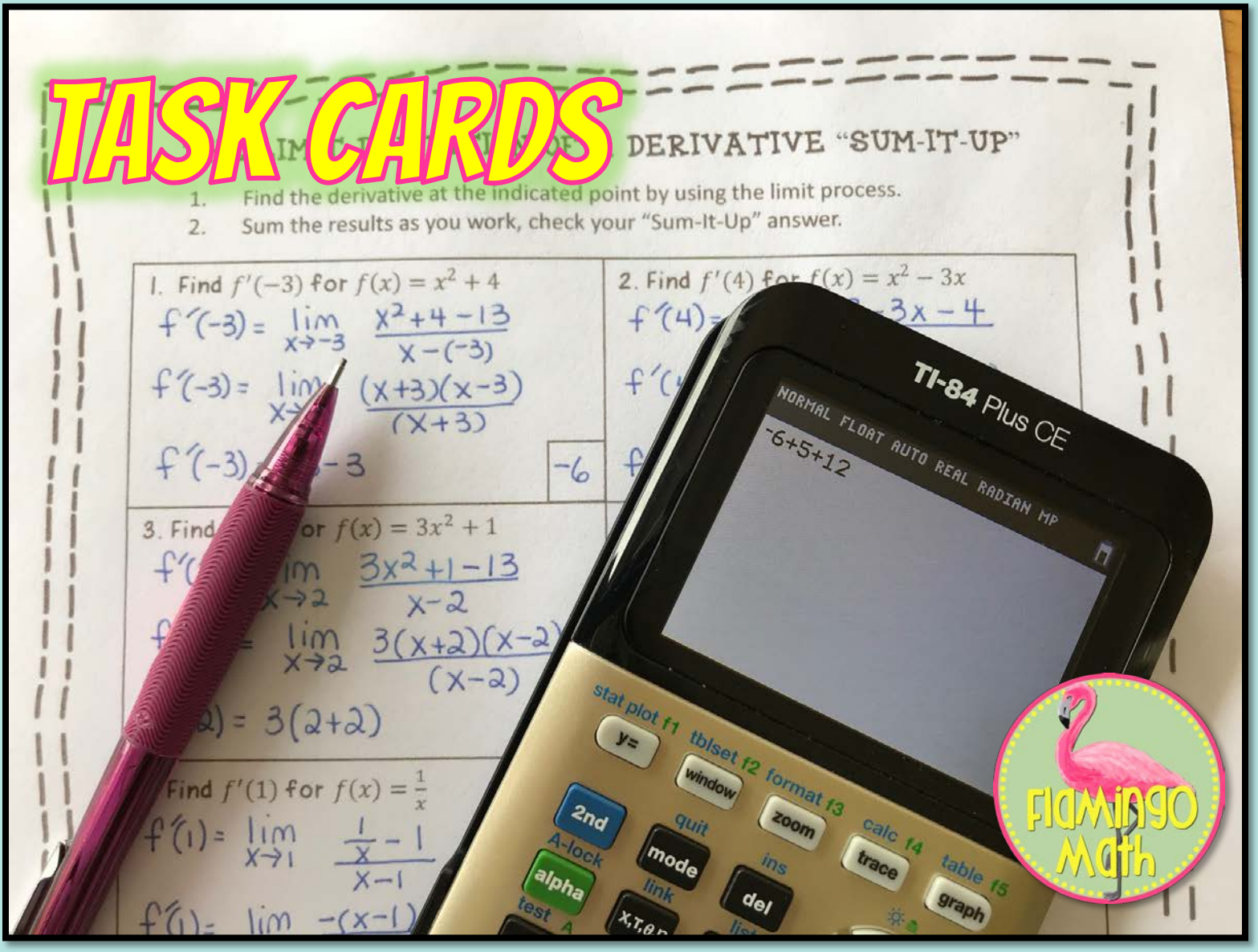
The Limit Definition of a Derivative Sum-It-Up



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The Limit Definition of a Derivative Sum-It-Up Activity

In this Sum-It-Up Activity, your PreCalculus students will use the formal definition of a derivative to find the derivative of a function at a point. This activity is as a review for the unit on ***Intro to Calculus***. There are 10 functions in the activity.

Using the activity:
Students find the answer to each of the 10 questions and add or subtract as they go along to "Sum-It-Up" for a grand total at the end. A Giant QR-Code is included if you like to use technology.

The activity can be done independently, as a pair and share, or many other strategies, including a race.

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The Limit Definition of a Derivative "Sum-It-Up"

1. Find the derivative at the indicated point by using the limit process.
2. Sum the results as you work, check your "Sum-It-Up" answer.

1. Find $f'(-3)$ for $f(x) = x^2 + 4$	2. Find $f'(4)$ for $f(x) = x^2 - 3x$
3. Find $f'(2)$ for $f(x) = 3x^2 + 1$	4. Find $f'(-2)$ for $f(x) = 4x -$
5. Find $f'(\ )$ for $f(x) = \frac{1}{x}$	6. Find $f'(-3)$ for $f(x) = x^2 + 2x - 3$
7. Find $f'(-1)$ for $f(\ ) = \ ^2 - 3x \ 2$	$f'(\ )$ for $f(x) = \sqrt{x-1}$
9. Find $f'(3)$ for $f(x) = x^3$	10. Find $f'(-1)$ for $f(x) = \frac{1}{x^2}$

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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.

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