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# I'm From Upstate New York



I love to Travel





# Pizza is my Favorite Food



Teaching  
Makes me  
Happy!

The image shows a chalkboard with handwritten mathematical derivations. On the left, a graph of a function  $y = g(x)$  is shown with a point  $T$  on the curve. A tangent line is drawn at  $T$ , and a secant line is drawn through two points on the curve. The horizontal distance between these points is labeled  $x+h$ . The text "Secant Lines" and "Tangent Line" are written near the respective lines. On the right, the derivative  $f'(x)$  is calculated using the limit definition:

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$
$$f(x) = \lim_{h \rightarrow 0} \frac{(x+h)^2 - x^2}{h}$$
$$= \lim_{h \rightarrow 0} \frac{x^2 + 2xh + h^2 - x^2}{h}$$
$$= \lim_{h \rightarrow 0} \frac{2xh + h^2}{h}$$

Further derivations are visible on the right side of the board, including:

$$= \lim_{h \rightarrow 0} \frac{h(2x + h)}{h} = \lim_{h \rightarrow 0} (2x + h) = 2x$$

Other partial derivations include:

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$
$$f(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$
$$f(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$



# I Love the Opera!



I'm Currently learning German.



I Love living  
in Casa  
Grande!





I'm Here to Help—Let's do This!!!!!!

