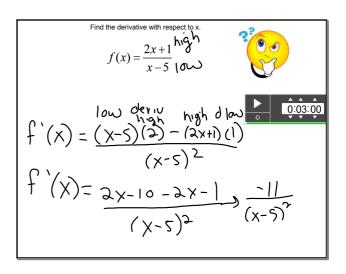
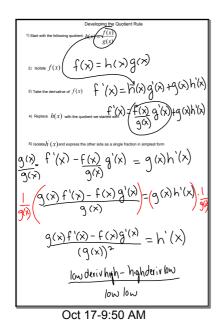


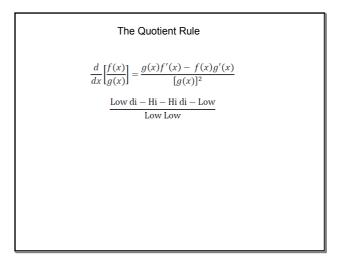
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$$y' = \frac{2x-3}{x+2}$$

$$y' = \frac{(x+2)^2}{(x+2)^2}$$

$$y' = \frac{3x+4-3x+3}{(x+2)^2}$$

$$y' = \frac{7}{(x+2)^2}$$
Oct 17-9:55 AM

Differentiate and simplify $g(x) = \frac{2x^3 + 4x^2 - 7}{x - 5}$ $g'(x) = \frac{(x - 5)(6x^3 + 8x) - (2x^3 + 4x^2 - 7)(1)}{(x - 5)^2}$

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$$y = \frac{\sin x}{\cos x}$$

$$y' = \frac{\sin x}{\cos x}$$

$$y' = \frac{\cos^2 x}{\cos^2 x}$$

$$y' = \frac{\cos^2 x}{\cos^2 x}$$

$$y' = \frac{1}{\cos^2 x}$$

$$Sec^2 x$$

Oct 17-9:59 AM

Find an equation of the tangent line to the graph of
$$f$$
 at the point $(-5,5)$.

$$f(x) = \frac{x}{x+4}$$

$$y-y_1 = m(x-x_1)$$

$$f'(x) = \frac{(x+y)(1) - x(1)}{(x+y)^2}$$

$$= \frac{(-5+y)(1) - (-5)}{(-5+y)^2}$$

$$= \frac{-1+5}{1} \rightarrow 4$$

$$y-5 = y(x+5)$$

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More Practice

Find the derivative of the following: 2x+5 3x-2

 $y = \frac{x^2 + 5x - 1}{x^2}$

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