

Find these derivatives! (As many as you can!)

$$f(x) = 2 \sec x + \tan x$$

$$f'(x) = 2 \sec x \tan x + \sec^2 x$$

$$y = \frac{-22x^{-5} - 17x^{-11}}{21x^{-4}} = -\frac{22}{21}x^{-1} - \frac{17}{21}x^{-7}$$

$$y' = \frac{22}{21}x^{-2} + 7 \cdot \frac{17}{21}x^{-8}$$

$$y = \sin x \cos x$$

$$y' = \cos x \cdot \cos x - \sin x \cdot \sin x$$

$$g(\theta) = \frac{\sin \theta}{\cos \theta} = \tan \theta$$

$$g'(\theta) = \sec^2 \theta$$

$$y = e^x(x^7 + 1)$$

$$y' = e^x(7x^6) + (x^7 + 1)e^x$$

$$h(x) = \frac{1}{2\sqrt{x}} = \frac{1}{2}x^{-1/2}$$

$$h'(x) = -\frac{1}{4}x^{-3/2}$$

$$y = 2xe^x$$

$$y' = 2e^x + 2xe^x$$

$$f(x) = xe^x \cos x$$

$$f'(x) = e^x \cos x + x \frac{d}{dx} [e^x \cos x]$$

$$= e^x \cos x + x [e^x \cos x - e^x \sin x]$$

$$y = \frac{8x^5 + 4x^4}{2x^2} = 4x^3 + 2x^2$$

$$y' = 12x^2 + 4x$$

$$f(t) = t^2 \sin t$$

$$f'(t) = 2t \sin t + t^2 \cos t$$

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

$$y = \sqrt{x} - \sqrt[3]{x}$$

$$y' = \frac{1}{2}x^{-1/2} - \frac{1}{3}x^{-2/3}$$

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

$$f(x) = \frac{5x^2 + 12x^{-5}}{\sqrt{x}} \stackrel{1/2}{=} 5x^{3/2} + 12x^{-5.5}$$

$$f'(x) = 5 \cdot \frac{3}{2} x^{1/2} + 12 \cdot (-5.5) x^{-6.5}$$

$$f(\theta) = \sqrt{\theta} \sec \theta$$

$$f'(\theta) = \frac{1}{2} \theta^{-1/2} \sec \theta$$

$$+ \sqrt{\theta} \sec \theta \tan \theta$$

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# Derivative Worksheets With Answers

## [Derivative Worksheets With Answers](#)

### Derivative Worksheets With Answers

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### Differentiation Practice Questions With Answers

Emma. I am passionate about travelling and currently live and work in Paris. I like to spend my time reading, gardening, running, learning languages and exploring new places.

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d) figure out the derivative of the tangent line equation with the help of the derivative formulas, e) reach a conclusion on the results obtained in b) and d). 3. Compute the derivative of the following functions (use the derivative rules) Solution 3.1 . Solution 3.2 . Solution 3.3 . Solution 3.4

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AP Calculus AB - Worksheet 26 Derivatives of Trigonometric Functions Know the following Theorems Examples Use the quotient rule to prove the derivative of: [Hint: change into  $\sin x$  and  $\cos x$  and then take derivative] 2. 3. 4. (coau ž) acc-L—tagc IV —cec(cec 1) cec cec esc wnan.çr.e: I — coa h —coax(cogz) — cec coa + coe coa coaw\_ + ...

### Worksheet 26 - Derivatives of Trig Functions

The following is a list of worksheets and other materials related to Math 122B and 125 at the UA. Your instructor might use some of these in class. You may also use any of these materials for practice. The chapter headings refer to Calculus, Sixth Edition by Hughes-Hallett et al. Published by Wiley. INTRODUCTION. Tools for Success-A list of

resources including tutoring services. website ...

### Math 124/125 - Calculus I Worksheets

Derivative Worksheets include practice handouts based on power rule, product rule, quotient rule, exponents, logarithms, trigonometric angles, hyperbolic functions, implicit differentiation and more. Power Rule in Differential Calculus Apply the power rule of derivative to solve these pdf worksheets. If  $y = x^n$ , then the derivative of  $y = nx^{n-1}$ .

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### Worksheets & Notes - Buford High schoolAP Calculus

derivative of  $p = 4x^2 + 9$ . Answer. 13. Hint.  $4x^2 = 9x^2 = 16$ . Apply the quotient rule. Answer. 14. Hint.  $5x^7 = 252x^3 = 2 + 4x^3 = 28x = 2$ . The power rule  $(x^n)' = nx^{n-1}$  works for fractional powers  $n$ . Just remember that  $n$  has to be a constant, as it is here in each of the four terms. Answer. 15. Hint.  $e^x \ln x$ . Use the product rule and the basic rules for the exponential and logarithmic functions:  $(e^x)' = e^x$  ...

### Practice Differentiation Math 120 Calculus I x

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