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The change in 'y', with respect to 'x' is represented by dy/dx which is usually said as "d-y-d-x". When differentiating a straightforward equation such as $y = x^2$, you simply lower the value of the exponent, or power, by one and multiply by the original value of the exponent. For example, the exponent in the equation $y = x^2$ is '2', decrease this by one and you are left with $dy/dx = x^1$ which can be expressed as just $dy/dx = x$.

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Evaluate the anti derivative of $e^{2x} \cdot \cos 3x$. We have to find $\int [e^{2x} \cdot \cos 3x \, dx]$ Here the best way to solve would be to use integration by parts. $\int [u \, dv] = u \cdot v - \int [v \, du]$ take $u = e^{2x}, \dots$

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pyramid, let x be the distance from the center to a side (see figure below).

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Answer the following questions about the function whose derivative is $f'(x) = (x - 1)^2(x + 7)$. a. What are the critical points of f ? b. On what open intervals is f increasing or decreasing? c....

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Answers >. Math >. Calculus. Question #135995. A tent in the shape of a pyramid with a square base is to be constructed from a piece of material having a side of length 5 meters. In the base of the pyramid, let x be the distance from the center to a side (see figure below). Find a mathematical model expressing the volume of the tent as a function of x .

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Write an equation that relates $\frac{dS}{dt}$ to $\frac{dr}{dt}$. $\frac{dS}{dt} = 4\pi r^2 \frac{dr}{dt}$. 1 Answer. $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x + 2} = \lim_{x \rightarrow 2} \frac{(x - 2)(x + 2)}{x + 2} = \lim_{x \rightarrow 2} (x - 2) = 0$.

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$\frac{dV}{dt}$: For instance, if the radius of the balloon is growing at 0.5 inch/sec , and if its radius is $r = 3.0 \text{ inch}$, then the volume is growing at a rate of $\frac{dV}{dt} = 4\pi(3.0 \text{ inch})^2(0.5 \text{ inch/sec}) = 37.7 \text{ inch}^3/\text{sec}$. 13.7. A more complicated example. Suppose you needed to find the derivative of $y = h(x) = \frac{1}{x+1} = (x+1)^{-1}$.

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MATH 221 FIRST SEMESTER CALCULUS

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Calculus

Beginning Differential Calculus : Problems on the limit of a function as x approaches a fixed constant ; limit of a function as x approaches plus or minus infinity ; limit of a function using the precise epsilon/delta definition of limit ; limit of a function using l'Hopital's rule . Problems on the continuity of a function of one variable

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