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

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Calculus Level 5 Imagine a circle of radius 1 rolling across the circumference of a circle of radius 12 with one point on the radius 12 circle and the rest of the radius ... by Alexander McDowell

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Answer to Question #134495 in Calculus for xxx 2020-09-22T06:20:54-0400. Answers > Math > Calculus. Question #134495. 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).

Answer in Calculus Question for xxx Q&A 134495

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 .

Answer in Calculus Question for Sean Q&A 135995

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Question

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Write an equation that relates $\frac{dS}{dt}$ to $\frac{dr}{dt}$. 1 Answer. $\lim_{x \rightarrow 2^-} (x+3) \sqrt{x+2} - x + 2$. $\lim_{x \rightarrow 2^-} (x+3) \frac{\sqrt{x+2}}{x+2}$.

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$\frac{dr}{dt}$: For instance, if the radius of the balloon is growing at $0.5 \text{ inch} = \text{sec}$, and if its radius is $r = 3.0 \text{ inch}$, then the volume is growing at a rate of $\frac{dV}{dt} = 4\pi(3.0 \text{ inch})^2(0.5 \text{ inch} = \text{sec}) = 57.13 \text{ inch}^3 = \text{sec}$. A more complicated example. Suppose you needed to find the derivative of $y = h(x) = \frac{p}{x+1} + (x+1)^2$.

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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