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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 $u = e^{2x}$,...

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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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Write an equation that relates. $\frac{dS}{dt}$. $\frac{dS}{dt}$ $\frac{dS}{dt}$ to. $\frac{dr}{dt}$. $\frac{dr}{dt}$ $\frac{dr}{dt}$. 1 Answer. $\lim_{x \rightarrow 2} \frac{x^2 - (x + 3)}{x + 2} = \lim_{x \rightarrow 2} \frac{x^2 - x - 3}{x + 2} = \lim_{x \rightarrow 2} \frac{(x - 3)(x + 1)}{(x + 2)} = \frac{|x + 2|}{|x + 2|} \lim_{x \rightarrow 2} \frac{x - 3}{x + 2} = \frac{2 - 3}{2 + 2} = -\frac{1}{4}$

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$\frac{dr}{dt}$: For instance, if the radius of the balloon is growing at 0.5inch=sec, and if its radius is $r = 3:0\text{inch}$, then the volume is growing at a rate of $\frac{dV}{dt} = 4 \cdot (3:0\text{inch})^2 \cdot 0:5\text{inch} = \text{sec}^{-1} \cdot 57\text{inch}^3 = \text{sec}^{-1} \cdot 57 \cdot 13.7$. A more complicated example. Suppose you needed to find the derivative of $y = h(x) = p \cdot x + 1 \cdot (p \cdot x + 1 + 1)^2$.

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