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$dr/dt$  : 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  $dV/dt = 4\pi(3.0 \text{ inch})^2(0.5 \text{ inch} = \text{sec}) = 37.7 \text{ inch}^3 = \text{sec}$ . 13.7. A more complicated example. Suppose you needed to find the derivative of  $y = h(x) = p(x+1)^2$ .

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*Calculus*

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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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....

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).

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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  $dy/dx = x$ .

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

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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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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.  $\lim_{x \rightarrow 2} \frac{x^2 - (x+3)|x+2|}{x+2}$ .  $\lim_{x \rightarrow 2} \frac{x^2 - (x+3)|x+2|}{x+2}$

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