

Calculus Questions With Answers

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Calculus Questions with Answers (2). The behaviors and properties of functions, first derivatives and second derivatives are studied graphically. discussed. Calculus Questions with Answers (3). Approximate graphically the first derivative of a function from its graph. Questions are presented along with solutions. Calculus Questions with Answers (4). Calculus questions, on differentiable functions, with detailed solutions are presented.

Calculus Questions, Answers and Solutions

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Calculus Questions with Answers (1) Calculus questions with detailed solutions are presented. The uses of the first and second derivative to determine the intervals of increase and decrease of a function, the maximum and minimum points, the interval (s) of concavity and points of inflections are discussed.

Question 1

Calculus Questions with Answers (1)

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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 $dy/dx = x$.

Calculus Trivia Questions & Answers | Math

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 $u = e^{2x}, \dots$

Calculus Questions and Answers - eNotes.com

Sample questions from the A.P. Calculus AB and BC exams (both multiple choice and free answer). Our mission is to provide a free, world-class education to anyone, anywhere. Khan Academy is a 501(c)(3) nonprofit organization.

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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

Popular Hard Problems in Calculus | Brilliant

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: $\lim_{x \rightarrow 2} \frac{(x+3)^2 - 2^2}{x-2} = \lim_{x \rightarrow 2} \frac{(x+2)(x+4)}{x-2} = \lim_{x \rightarrow 2} (x+4) = 6$.

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

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