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The solution to the differential equation $dy/dx = x^3/y^2$, where $y(2) = 3$, is A. $y = \sqrt{3}(3/4 x^4)$ B. $y = \sqrt{3}(3/4 x^4 + \sqrt{3})(15)$ C. $y = \sqrt{3}(3/4 x^4) + 15$ D. $y = \sqrt{3}(3/4 x^4 + 5)$ E. $y \dots$

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Solution to Question 1: a) We first find the first derivative $f'(x) = (x - 2)^3 + 3(x + 3)(x - 2)^2 = (x - 2)^2(4x + 7)$ $f'(x)$ has zeros at $x = 2$ and $x = -7/4$ The table of sign of $f'(x)$ is shown below; Using the table, f is decreasing on the interval $(-\infty, -7/3)$ and increasing on the interval $(-7/3, +\infty)$

Calculus Questions with Answers (1)

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Calculus 1: Sample Questions, Final Exam, Solutions. Calculus 1: Sample Questions, Final Exam, Solutions 1. Shortanswer. Put your answer in the blank. NOPARTIALCREDIT! (a) Evaluate $\int_3^5 \frac{1}{x} dx$. Your answer should be in the

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Free Calculus 1 Diagnostic Tests. Take the Varsity Learning Tools free diagnostic test for Calculus 1 to determine which academic concepts you understand and which ones require your ongoing attention. Each Calculus 1 problem is tagged down to the core, underlying concept that is being tested. The Calculus 1 diagnostic test results highlight how you performed on each area of the test.

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Fall 2013, Practice Test 3. Vector calculus. Spring 2016, Test 4; Spring 2015, Test 4; Spring 2014, Test 4; Spring 2014, Test 4; Spring 2014, Test 4. Fall 2012 midterm, honors. In-class tests of Christian Roettger ...

Math 265 (Calculus III) -- Old Exams

Calculus 1) to complete the assigned problem sets. The course reader is where to find the exercises labeled 1A, 1B, etc. Problem sets have two parts, I and II. Part I consists of exercises given in the course reader and solved in section S of the course reader. It will be graded quickly, checking that all is there and the solutions not copied.

Exams | Single Variable Calculus | Mathematics | MIT ...

Calculus I. Here are a set of practice problems for the Calculus I notes. Click on the "Solution" link for each problem to go to the page containing the solution. Note that some sections will have more problems than others and some will have more or less of a variety of problems.

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Calculus I (Practice Problems) - Lamar University

Exam Questions - Integration: $(ax+b)^n$ types; Integrating exponential functions e^x , e^{ax} and $e^{(ax+b)}$ Exam Questions - Integrating exponential functions e^x , e^{ax} and $e^{(ax+b)}$ Integrating reciprocal functions $1/x$ and $1/(ax+b)$ Exam Questions - Integrating reciprocal functions $1/x$ and $1/(ax+b)$ Integrals of the form $\int f'(x)/f(x)$ Integrals of the ...

Topic 6 : Calculus | ExamSolutions

Solution. Determine where, if anywhere, the function $y = 2z^4 - 3z^2$ is not changing. Solution. Find the tangent line to $g(x) = 16x^4 - 4x^2$ at $x = 4$. Solution. Find the tangent line to $f(x) = 7x^4 + 8x^6 + 2x$ at $x = 1$. Solution.

Calculus I - Differentiation Formulas (Practice Problems)

Solutions to Practice Tests 12. Solutions to Practice Calculus Readiness Test. Solution to Question 1: In 8 years the value will be $3 \times 100 = 300$. Eight years later (after a total of 16 years), the value will be $3 \times 300 = 900$. Eight years after that (after a total of 24 years) the value will be $3 \times 900 = 2700$.

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4 p 4x dx. (D) Z. 1 0. 4x p 4x dx. Answer: (13)[10 points] Let $s(t)$ be the displacement function of a mouse moving along the x -axis. Let $v(t)$ and $a(t)$ be its velocity and acceleration functions respectively. If $a(t) = 2 + 4e^{2t}$; $v(0) = 1$ and $s(0) = 4$; determine which of the

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following expressions describes $s(t)$. (A) $8e^{2t}$.

MATH 121, Calculus I | Final Exam (Spring 2013)

From $x^2 + y^2 = 144$ it follows that $x \frac{dx}{dt} + y \frac{dy}{dt} = 0$. Thus when $x(t) = 4$ we have that $y(t) = 8$ and $4 + 8 \frac{dy}{dt} = 0$. The top of the ladder is falling at the rate $\frac{dy}{dt} = -\frac{1}{2}$ m/min. 3. Let $x = x(t)$ be the height of the rocket at time t and let $y = y(t)$ be the distance between the rocket and radar station.

A Collection of Problems in Differential Calculus

A comprehensive database of more than 33 calculus quizzes online, test your knowledge with calculus quiz questions. Our online calculus trivia quizzes can be adapted to suit your requirements for taking some of the top calculus quizzes.

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