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Differential Calculus Problems With  
Solution

Solution : the distance  $x$  meters traveled by a



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Solution  
vehicle in time  $t$  seconds.  $x = 20t - (5/3)t^2$ .

To find the speed of the vehicle, differentiate it with respect to " $t$ ".  $dx/dt = 20(1) - (5/3)(2t) = 20 - (10t/3)$  the speed of the vehicle (in km/hr) at the instant the brakes are applied.  $t = 0$ .

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Solutions  
Differential Calculus Word Problems with  
Solutions

Problems and Solutions. Go through the  
given differential calculus examples below:

Example 1:  $f(x) = 3x^2 - 2x + 1$ . Solution:

Given,  $f(x) = 3x^2 - 2x + 1$ . Differentiating  
both sides, we get,  $f'(x) = 6x - 2$ , where  
 $f'(x)$  is the derivative of  $f(x)$ . Example 2:

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$f(x) = x^3$ . Solution: We know,

$$\frac{d}{dx}(x^n) = nx^{n-1}$$

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Differential Calculus (Formulas and  
Examples)

Section 3-3 : Differentiation Formulas. For

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problems 1 – 12 find the derivative of the  
given function.  $f(x) = 6x^3 - 9x + 4$   $f'(x) = 6$

$x^3 - 9x + 4$  Solution.  $y = 2t^4 - 10t^2 + 13t$   $y$

$= 2t^4 - 10t^2 + 13t$  Solution.  $g(z) = 4z^7$

$- 3z - 7 + 9z$   $g'(z) = 4z^7 - 3z - 7 + 9z$

Solution.  $h(y) = y - 4 - 9y - 3 + 8y - 2 + 12$

$h'(y) = y - 4 - 9y - 3 + 8y - 2 + 12$

Solution.  $y = x + 8$   $3x - 24$   $xy = x +$

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Calculus I - Differentiation Formulas  
(Practice Problems)

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$2 = 1 \cdot 1 + 2 \cdot 0 = 1 = 1$ . Therefore, the given boundary problem possess solution and it particular. solution is  $= \sin$ . (b) Since every solution of differential equation  $2 \cdot 2 + = 0$  may be written...

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(PDF) PROBLEM SET & SOLUTIONS:

*Page 15/35*

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## DIFFERENTIAL EQUATION

Section 4-12 : Differentials. For problems 1

- 3 compute the differential of the given function.
- $f(x) = x^2 - \sec(x)$   $f'(x) = 2x - \sec(x)\tan(x)$  Solution.  $w = e^{x^4 - x^2 + 4x}$   $w' = e^{x^4 - x^2 + 4x} (4x^3 - 2x + 4)$  Solution.  $h(z) = \ln(2z)\sin(2z)$   $h'(z) = \ln(2z) \cdot 2\cos(2z) + \sin(2z) \cdot \frac{1}{z}$



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Calculus I - Differentials (Practice Problems)

Optimization Problems for Calculus 1 with detailed solutions. Linear Least Squares Fitting. Use partial derivatives to find a linear fit for a given experimental data. Minimum Distance Problem. The first derivative is

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Solution  
used to minimize distance traveled.

Maximum Area of Rectangle - Problem with Solution. Maximize the area of a rectangle inscribed in a triangle using the first derivative. The problem and its solution are presented.

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Calculus I With Review nal exams in the period 2000-2009. The problems are sorted by topic and most of them are accompanied with hints or solutions. The authors are thankful to students Aparna Agarwal, Nazli Jelveh, and Michael Wong for their help

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Solutions with checking some of the solutions. No project such as this can be free from errors and ...

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A Collection of Problems in Differential  
Calculus

Identify whether a given function is a

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Solution  
solution to a differential equation or an initial-value problem. Calculus is the mathematics of change, and rates of change are expressed by derivatives. Thus, one of the most common ways to use calculus is to set up an equation containing an unknown function  $(y=f(x))$  and its derivative, known as a differential equation.

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## 9.1: Modeling with Differential Equations - Mathematics ...

solve the problem. You might wish to delay consulting that solution until you have outlined an attack in your own mind. You might even disdain to read it until, with

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THE CALCULUS PAGE PROBLEMS  
LIST

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Solved example of differential calculus.  $\frac{d}{dx}(2x+1)$   
 $\frac{d}{dx}(2x+1) = \frac{d}{dx}(2x) + \frac{d}{dx}(1)$   
 $\frac{d}{dx}(2x) = 2$ . The derivative of a sum of  
two functions is the sum of the derivatives of  
each function.  $\frac{d}{dx}(2x) + \frac{d}{dx}(1)$   
 $\frac{d}{dx}(2x) = 2$   
 $\frac{d}{dx}(1) = 0$   
 $\frac{d}{dx}(2x+1) = 2 + 0 = 2$

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have many applications in science and engineering.

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Volume 2

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point  $x = 0$ . find two power series solutions

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Solution of the 8.  $y'' + xy = 0$  In Problems : given differential equation about the ordinary point  $x = 0$ . find two power series solutions of the 8.  $y'' + xy = 0$

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Answered: In Problems : given differential...  
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Differential Calculus. Chapter 1 -  
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